EXHIBIT B19

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1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE DISTRICT OF NEW JERSEY
3	
4	IN RE: JOHNSON & JOHNSON TALCUM
5	POWDER PRODUCTS MARKETING, SALES
6	PRACTICES, AND PRODUCTS LIABILITY
7	LITIGATION
8	MDL NO. 16-2738(FLW)(LGH)
9	
10	/
11	THIS DOCUMENT RELATES TO
12	ALL CASES VOLUME II
13	/
14	
15	
16	
17	The Videotaped Deposition of GHASSAN SAED, Ph.D.,
18	Taken at 1 Park Avenue,
19	2nd Floor Conference Room,
20	Detroit, Michigan,
21	Commencing at 8:30 a.m.,
22	Thursday, February 14, 2019,
23	Before Jennifer L. Ward, CSR-3717.
24	
25	

Ghassan Saed, Ph.D.

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2 3	P. LEIGH O'DELL, ESQ. and	2 3	JAMES W. MIZGALA, ESQ.
4	MARGARET M. THOMPSON, M.D., J.D.	4	Tucker Ellis
5	Beasley Allen Law Firm	5	233 South Wacker Drive
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7	Montgomery, Alabama 36103	7	(312) 624-6300
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9	leigh.odell@beasleyallen.com	9	Appearing on behalf of Defendant PTI.
10	Margaret.Thompson@BeasleyAllen.com	10	
11	Appearing on behalf of Plaintiffs.	11	THOMAS T. LOCKE, ESQ.
12		12	Seyfarth Shaw, LLP
13	DANIEL R. LAPINSKI, ESQ.	13	
14	Wilentz, Goldman & Spitzer, P.A.	14	<i>C</i> ,
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19	dlapinski@wilentz.com	19	ALSO PRESENT:
20	Appearing on behalf of Plaintiffs.	20	Jeff Gudme, Videographer
21	rippearing on behalf of Financials.	21	veri Gadine, viacographer
22		22	
23	(Appearances continued on Page 346.)	23	
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2		2	Thursday, February 14, 2019
3	EXHIBIT PAGE	3	About 8:43 a.m.
4		4	THE VIDEOGRAPHER: On the record.
5	EXHIBIT 47	5	This is the continued video deposition of Ghassan Saed,
6 7	Form B for Calendar Year 2017 519	6	being taken in Detroit, Michigan. Today is February 14th, 2019. The time on the record is
8	EXHIBIT 48	8	approximately 8:43 a.m. Eastern time.
9	E-Mail Dated February 7, 2019 522	9	At this time will the attorneys
10	2 Main Balod Footaary 1, 2019	10	please identify themselves and affiliations, and then
11	EXHIBIT 49	11	our court reporter will swear in the witness.
12	E-Mail Forwarded by Amy Harper on	12	MS. O'DELL: Leigh O'Dell,
13	February 11, 2019 523	13	Beasley Allen, for the Plaintiffs.
14		14	MS. THOMPSON: Margaret Thompson,
15	EXHIBIT 50	15	Beasley Allen, Plaintiffs.
16 17	GWAS Catalog Search 528	16 17	MR. LAPINSKI: Daniel Lapinski, the
18	EXHIBIT 7	18	Wilentz Law Firm, the Plaintiffs. MR. HEGARTY: Mark Hegarty for the
19	Original Manuscript (Previously Marked)	19	Johnson & Johnson Defendants.
20	(Treviously Marked)	20	MR. WYATT: Geoffrey Wyatt from
21	EXHIBIT 16	21	Skadden for the J & J Defendants.
22	Report (Previously Marked)	22	MR. LOCKE: Tom Locke from
23		23	Seyfarth Shaw for the Personal Care Products Council.
24		24	MR. MIZGALA: James Mizgala for PTI.
25	(Index to Exhibits continued on Page 354.)	25	MS. O'DELL: Before we begin, let me
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1	Page 356 INDEX TO EXHIBITS	1	just put a statement on the record. Today's date is
2	INDEX TO EXHIBITS	2	just put a statement on the record. Today's date is February the 14th, 2019.
2 3		2 3	just put a statement on the record. Today's date is February the 14th, 2019. Yesterday, Imerys Talc America filed
2 3 4	INDEX TO EXHIBITS EXHIBIT PAGE	2 3 4	just put a statement on the record. Today's date is February the 14th, 2019. Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal
2 3 4 5	INDEX TO EXHIBITS EXHIBIT PAGE EXHIBIT 24	2 3 4 5	just put a statement on the record. Today's date is February the 14th, 2019. Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are
2 3 4 5 6	INDEX TO EXHIBITS EXHIBIT PAGE	2 3 4	just put a statement on the record. Today's date is February the 14th, 2019. Yesterday, Imerys Talc America filed bankruptcy. Imerys Talc America has been a principal Defendant in this litigation, and their interests are inextricably intertwined with Johnson & Johnson
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Page 359 Page 361 February 13th, for Johnson & Johnson's position with we submitted to SGO. regard to the Imerys filing in today's deposition. 2 2 Q. Anyone else? 3 MR. LOCKE: We join in that. 3 A. No. 4 MR. HEGARTY: Okay. Ready? I don't 4 Q. Have you prepared any additional invoices of 5 know if you need to reswear in the witness. Okay. 5 your work -- and let me back up. We were provided with GHASSAN SAED, Ph.D., a copy of an additional invoice of your work late last 6 6 7 having first been duly sworn, was examined and 7 night. I'm going to mark as Exhibit Number 22 a copy 8 8 testified on his oath as follows: of that invoice. **EXAMINATION BY MR. HEGARTY:** 9 9 **DEPOSITION EXHIBIT 22** 10 Q. Good morning, Dr. Saed. 10 Invoice A. Good morning. 11 11 WAS MARKED BY THE REPORTER Q. Did you review any documents to prepare to 12 12 FOR IDENTIFICATION testify here today? 13 13 BY MR. HEGARTY: A. Maybe my report. 14 14 Q. Is that the -- the most recent invoice that Q. Did you review any other documents besides 15 15 you prepared for purposes of your work on this 16 your report to prepare to testify today? 16 litigation? A. Anything specific, no. A. Yes. 17 17 Q. Did you talk to anyone outside of 18 18 Q. Has that invoice been paid? Plaintiffs' counsel to prepare to testify today? 19 19 A. 20 20 Q. You mentioned when we were together last 21 Q. Did you talk with any of the -- of the -- of 21 month that you were asked to write an editorial to an 22 your co-authors on your manuscript or who were involved 22 open access journal on talc and oxidative stress. Have 23 in preparing the lab notebooks about either your 23 you started writing that editorial? deposition last month or your deposition today? 24 24 A. Not yet. A. Anything specific? Like talk about what? 25 25 O. Did you or anyone else add to or change Page 360 Page 362 anything in the lab notebooks produced at your last Q. Talk about what was discussed at your deposition -deposition, Exhibits 2 and 3? 2 2 3 3 A. No. A. No. 4 Q. -- the subject of your deposition? 4 Q. We received prior to your deposition a 5 A. With my lab worker, yes. I was telling them number of additional documents that you provided to about the whiteout in the notebook. counsel for Plaintiffs that I'd like to walk through. 6 7 7 The first document we received I'm going to mark as O. What lab worker? 8 8 Exhibit 23, which is a copy of pages from one of your A. My research assistant. 9 O. What's their name? 9 lab notebooks that were produced last month. 10 A. Rong. We call her Florie, so --10 **DEPOSITION EXHIBIT 23** Q. Did you talk with anyone else outside of 11 Copy of Pages From Lab Notebook 11 Plaintiffs' counsel about your deposition last month or WAS MARKED BY THE REPORTER 12 12 your deposition today besides Flora? FOR IDENTIFICATION 13 13 14 A. No. 14 BY MR. HEGARTY: 15 Q. Since your last deposition, have you spoken 15 O. Is that correct? 16 with anyone outside of Plaintiffs' counsel about your 16 A. This is -- which one is this? talc testing or your manuscripts, other than your lab 17 O. I believe this would be the pilot study of 17 personnel? In other words, anyone outside of the preliminary trial that you did to, as you said, 18 18 Wayne State or outside of our lab personnel, have you tune up the technique for your testing for your 19 19 talked with them about the testing that you did or your manuscript. 20 20 21 manuscript? 21 A. Exhibit 3? 22 A. The testing that I did, I didn't. About the 22 MS. O'DELL: Object to the form. 23 manuscript, I talked to SRI. 23 BY MR. HEGARTY: 24 Q. Anyone else? 24 Q. It should be -- it's the first --25 A. And I talked to regarding the abstracts that 25 MS. O'DELL: Dr. Saed --

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	Page 363		Page 365
1	BY MR. HEGARTY:	1	Q. Did you
2	Q 30 pages or so of Exhibit 3, correct?	2	A. It's very
3	MS. O'DELL: Object to the form. I	3	Q. I'm sorry.
4	think you're referring to Exhibit 2.	4	A. It's a very labile molecule.
5	MR. HEGARTY: Exhibit 2, yes.	5	Q. Did you conclude that the 500 microgram per
6	BY MR. HEGARTY:	6	milliliter and the thousand microgram per liter dosages
7	Q. You should be at Exhibit 2.	7	were toxic to the cells?
8	A. Exhibit 2?	8	A. Not necessarily. We just lost the RNA.
9	Q. Yes.	9	From our practice working with RNA, this is a common
10 11	A. The first 29 pages. On The first 20 pages is that correct?	10	problem working with RNA. RNA is a very labile
12	Q. The first 29 pages; is that correct?A. Oh, this one here?	11 12	molecule, and it's susceptible to degradation, and so the RNA degraded, and we did not continue, and we
13	Q. Of Exhibit 2.	13	started this other experiment.
14	A. Okay.	14	Q. If you turn over to page 24
15	Q. Is that right?	15	A. 24.
16	A. Yes. Yes. I know now.	16	Q of that part of the notebook.
17	Q. As you said last month, those pages	17	A. Um-hum.
18	represent a preliminary trial or a pilot study for the	18	Q. You have tables
19	testing that you ultimately did that's described in	19	A. Yes.
20	your manuscript and your expert report, correct?	20	Q that report data for a thousand.
21	A. This was an attempt to yes.	21	A. Correct.
22	Q. Okay. And again, those pages, Exhibit 23,	22	Q. How is that possible?
23	are from original notebook number two, correct,	23	A. Okay. So this experiment is from part one.
24	Exhibit Number 2?	24	This is the poster that we submitted, which is this.
25	A. Yes.	25	Exhibit 3, this data belonged to the first first
	Page 364		Page 366
1	Q. If you look in Exhibit 23 at page two.	1	trial experiment that we did. It's misplaced here.
2	A. Yes. This page?	2	That's not the right place for it. It's right here.
3	Q. Yes. There are 500 microliter and 1,000	3	MS. O'DELL: Dr. Saed, you're
4	microliter treatments?	4	pointing to a page in Exhibit 3?
5	A. Micrograms.	5	THE WITNESS: This is Exhibit
6 7	Q. Micrograms, I'm sorry. There there are 500 let me start over. There are 500 and 1,000	6 7	Exhibit 3. That's the poster we submitted at SRI, it's right here, and this data exactly is there. It's not
8	micrograms per milliliter of treatments shown on that	8	supposed to be here.
9	page. Where is the data for the 500 microgram per	9	MS. O'DELL: What what page in
10	milliliter tests?	10	Exhibit 3 is the poster?
11	A. So this experiment, we started to treat	11	THE WITNESS: It's 62 and 63. This
12	cells with two doses, 500 and a thousand. And this	12	here, right here.
13	experiment here we did not continue because the RNA was	13	BY MR. HEGARTY:
14	degraded, and we couldn't do any further testing with	14	Q. Okay. We'll come back to that.
15	it. So that's why we stopped here, and we started a	15	A. Exact same data.
16	new one on on on page the actual manuscript	16	Q. Okay.
17	work.	17	A. So yes, we tried we tried a thousand, and
18	So those doses were not the	18	we tried the 500, that was our initial work, because we
19 20	cells were not good, they were not healthy, and they didn't tolerate this treatment, and this is why we	19 20	always when we do treatment like this, we always start with the high dose, and then we titrate it down
21	think we lost them, because they didn't tolerate this	21	to lower dose.
22	treatment. We're not sure why.	22	Q. If we stay on page two of Exhibit 23, or
23	Q. That was going to be my follow-up question.	23	your notebook two
24	Why, from your standpoint, was the RNA degraded?	24	A. Can you just show me the page, please?
25	A. Oh, RNA could degrade for many reasons.	25	Q. Same page we were looking at.
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	Page 367		Page 369
1	A. Okay.	1	A. No.
2	Q. You show on this page using baby powder and	2	Q 1,000 microgram per milliliters doses?
3	talc. Do you see that?	3	A. Okay.
4	A. Where?	4	MS. O'DELL: Just object to form.
5	Q. If you look in the experiments, you list	5	Let him finish.
6	500 micrograms per milliliter of talc. You also list	6	THE WITNESS: Okay.
7	500 micrograms per milliliter of baby powder that you	7	MS. O'DELL: And then as you're
8 9	designate as BP. Do you see that? A. Yes.	8	going back and forth, Dr. Saed, in talking about specific pages, just make sure you're really clear
10	Q. So in this experiment, did you use Johnson	10	THE WITNESS: Yeah.
11	baby powder and another manufacturer's talc?	11	MS. O'DELL: what you're
12	A. Yes, Fisher.	12	referring to so it will it will come through on the
13	Q. I'm sorry?	13	transcript.
14	A. Fisher.	14	THE WITNESS: Okay. So again, I
15	Q. In fact, you show pictures of both	15	forgot, what was the question?
16	A. Correct.	16	BY MR. HEGARTY:
17	Q on the page before?	17	Q. Did you generate RNA extraction data for the
18	A. Correct.O. Is there a breakdown of data in this	18	500 and a thousand microgram per milliliter samples?
19 20	Q. Is there a breakdown of data in this notebook between the baby powder and the talc?	19 20	A. No, nothing not from this study.Q. In looking at pages six and seven, for what
21	A. We did not continue this experiment because	21	samples was this RNA extraction data created? What do
22	we didn't get RNA, so that's why the first part of	22	they correspond to?
23	the of the experiment was done with Fisher, and the	23	A. Here. The ID is right here.
24	manuscript was done with baby powder. We did not	24	MS. O'DELL: What page, sir?
25	continue that because we didn't get RNA. And this is	25	THE WITNESS: Page two.
	Page 368		Page 370
1	very common.	1	BY MR. HEGARTY:
2 3	Q. On pages six and seven, you show RNA extraction data?	2 3	Q. Well, you said
4	A. Yes.	4	A. Page seven, you have 267, 269, 273, yes?Q. Yes.
5	Q. Did you not generate any RNA extraction data	5	A. And then on the next page, you have it
6	for the 500 and the thousand milliliter per microgram	6	has everything has a code next to it. So they're
7	tests?	7	all labeled. See that?
8	A. Okay. So see the ID number?	8	Q. Yes. But if you look, Doctor, there is
9	Q. Yes.	9	for example, 278, on page two, a sample for 278
10	A. All the ID number, and then the ID number	10	A. Um-hum.
11	here? It says exactly which one we isolated RNA from,	11	Q and I don't see RNA extraction data for
12	so they should correspond. If we isolated RNA, it will	12	278 on six or seven.
13 14	be from here. But the problem is, the RNA we isolated was not the quality was not good, so we had to redo	13 14	A. 278. I just want to make sure before I answer you. Okay.
15	it.	15	Q. Why is that?
16	Q. And none of the numbers that you list for	16	A. We probably we lost it.
17	the 500 and the thousand	17	Q. Do you know?
18	A. Um-hum.	18	A. I don't know. What I know from this
19	Q are listed on the RNA data on six and	19	experiment, the RNA extraction did not work as well as
20	seven?	20	we would like to.
21	A. Yes.	21	Q. But the data on six and seven do correspond
22	MS. O'DELL: Object.	22	with some of the samples on page two, correct?
23	BY MR. HEGARTY:	23	A. Some worked, some didn't.
24	Q. So did you actually generate RNA data for	24	Q. Did you run any enzyme tests, any PCR or
25	the 500 and	25	ELISA tests on the 500 or 1,000 samples?

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Page 371 Page 373 A. From these data? 23. Did you run data for SOD-3, CAT, GST, etcetera? 1 Q. Yes. A. Okay. Let me answer this, please. So this 2 2 3 3 A. No. part here, you see how it's scribbled a lot and 4 Q. Do you still have somewhere, though -- or 4 scratched and all that stuff? 5 strike that. With regard to the sample 278 we talked 5 MR. LAPINSKI: What page are you about, did you even run the RNA extraction data? 6 referring to, Doctor? MS. O'DELL: Objection, form. I'm 7 THE WITNESS: 20. 20 you have the 7 not sure I understood. Do you mind repeating your 8 8 same page, right? BY MR. HEGARTY: 9 auestion? 9 10 10 BY MR. HEGARTY: Q. 20, yes. Q. Well, you how a sample. We looked at 278, A. Okay. This part here, we just started a 11 11 fresh one here. It's exactly the same one. We started 12 correct? 12 to explain everything in details. 13 A. (Nodding). 13 Q. You're jumping over to the main tests? 14 Q. And you're nodding your head. And on six 14 A. Yes, which this is exactly the same. It's 15 and seven there is no RNA extraction data for 278. Did 15 16 you even try to run the 278 sample? 16 just different -- the way we organized it here better, A. I need to clarify something. There is 17 okay. We didn't cross anything, we didn't do anything, 17 something missing here, okay. So these are the samples I just scrambled this, and then we started the whole 18 18 the treatment of cells, okay. You treat the cells, and 19 new book from here, explaining everything in details 19 then after the treatment, as indicated here, 24 hours, with the sample ID. Let me tell you --20 20 21 MS. O'DELL: At what page --21 48 hours, 72 hours with the different doses, 500, 22 1,000, with the -- with the powder, then 22 THE WITNESS: Let me answer the 23 you -- after that, you extract RNA. 23 question. 24 Q. Right. 24 MS. O'DELL: At what page is that? 25 A. What I said is some of the extraction 25 THE WITNESS: Oh. From here on, Page 372 Page 374 worked, some didn't, and even the one that they worked, 1 from --2 the RNA was degraded. 2 MS. O'DELL: Page? 3 THE WITNESS: From page 30 on. O. How do you know if an extraction works or it 3 4 doesn't? 4 MS. O'DELL: Okay. 5 A. Because when you look at the -- you're 5 THE WITNESS: Let me explain. Let trying to -- how do I know if it worked or not? If you me answer your question about the enzymes. So now we 6 6 did -- these are the cells. We treated the cells, 7 look at the ratio of 260 to 280, that's very low, and 7 the yield was very low. 8 okay, with the 5, 20 and a hundred, okay. And then we 8 took some of the media, we took some of the cells for 9 Q. You're looking at the ratio of 260 to 280? 9 10 A. Yes. And the -- the yield, how much we got 10 RNA extraction to do PCR, we took some from the cells out of the cells was very low to do anything with it. for -- to isolate protein to do ELISA, and some for DNA 11 11 Q. But why didn't you -- why don't you have a 12 12 to do the genetic testing. 13 BY MR. HEGARTY: line for 278? 13 14 A. 278? I don't know. Maybe we -- maybe we --14 Q. Okay. we lost it completely. I don't know. I don't A. So it's the same exact sample ID, same exact 15 15 16 remember. 16 lot, because that's the way -- the proper way to do Q. If you turn over to page 20 of this same 17 these kind of experiments. You have to start from one 17 part of the notebook we're looking at, there you report cell line -- from one lot of cells, sorry, and then go 18 18 treatments with 5, 20 and 100 micrograms per from there. So same cells, we isolate RNA, isolate for 19 19 milliliter, correct? PCR, protein for enzyme testing we call it, it's ELISA, 20 20 A. Correct. 21 21 and DNA for genetic testing. 22 Q. Where is the enzyme data for these tests? 22 Q. If you look at page 21 of the same part of 23 In other words, you show --23 the notebook we've been talking about --24 A. Oh, okay. 24 A. Yes. 25 25 Q. -- RNA data on the next couple pages, 22 and Q. -- there are tests at the bottom dated

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Page 375 Page 377 February 26th, 2018 with 5, 20 and a hundred and zero A. 383, 384, 385, that answers your question, 1 that are numbered 3 -- 383, 384, 385 and 386. Do you right? They are treated with the same. This is just 2 3 see that? additional, extra --4 A. Um-hum. 4 Q. Okay. 5 Q. If you turn to the next two pages --5 A. -- to get more cells. Q. So where -- where are the tests for the ones 6 A. 383. 6 7 7 that are reported on 2-26? Q. -- those pages are dated 2-15 -- 2-5 and 2-16 and list data -- RNA extraction data for 383, 8 A. We didn't need to do it. We have -- we have 384, 385 and 386, but you're showing the seeding 9 done here. We did it. We're done. 10 of cells on the 26th. How can you have data 10 Q. Well, why did you do it again on 2-26? We need more. We always need more. generated on the 5th and 16th for cells you seeded on 11 11 A. But did you test those? 12 the 26th? 12 Q. The new ones that we did? A. This is 2-26. That's 283, 284, 260, yeah. 13 13 A. This could be from a different lot. So because we --14 14 O. Correct. we get -- we always treat cells and get more cells if 15 A. No. 16 we need RNA. So this could be from a different lot. 16 Q. Why not? A. We didn't need to. We had -- we had enough So this is normal ovarian epithelial cells, but they're 17 17 very hard to grow. You need to grow more of them to RNA, and we proceeded. 18 18 get the same amount of RNA. Q. Well, you had enough RNA as reported on 2-5 19 19 Q. So where are then the treatments of 383, and 2-16. Why then did you decide on 2-26 to do the 20 20 384, 385 and 386 that are reported on 22 and 23? cells again? 21 21 22 A. This one here? 22 A. Hold on one second, please. 23 Q. Yes. You report data on 2-5 and 2-16 on 23 MS. O'DELL: Object to form. pages 22 and 23 for samples 383 through 386, but where THE WITNESS: I'm not understanding 24 24 25 are the -what you're really asking me now. 25 Page 376 Page 378 BY MR. HEGARTY: 1 A. Yeah. Q. -- seeding -- where is the seeding data and 2 2 Q. Well, you --3 A. Where are you looking? the data for those four samples? A. There is no seeding data. This is just to 4 4 Q. Let me finish my question. You said you ran get more of it. We have retreated the same time with the tests for normal epithelial cells, as you pointed the other cells, but this is an additional treatment to to on page 20, 383 to 386, that you say correspond to 7 7 the data on those two pages, on pages 22 and 23, get more cells --8 Q. Understood. 8 correct? 9 A. -- more RNA. But we didn't use this for 9 A. Yes. 10 isolating the RNA from here. 10 Q. Those pages are -- have dates on them of the O. But where did 383 to 386 come from? data runs of 2-5 and 2-16, correct? 11 11 A. They were treated with the same cells. 12 12 A. Correct. 13 13 Q. So you've got data that you can use? Q. But you --MS. O'DELL: On what page? 14 14 A. Um-hum. Then why did you need to run additional 15 BY MR. HEGARTY: 15 16 Q. The page you're pointing to, page 20, has 16 cells on 2-26, if you already had data that you could crossed out 383 to 386, and it covers different cells 17 17 use? on that page --18 18 A. I answered. A. No --MS. O'DELL: Object to the form. 19 19 Q. Let me finish -- SKOV A2780. BY MR. HEGARTY: 20 20 21 A. Can I answer? 21 Q. Tell me again. Q. Sure. 22 22 A. Okay. Normal ovarian epithelial cells, they 23 A. Okay. If you look at page 20, see normal 23 are very slow-growing cells, and every time we work with them, we -- because cancer cells grow so fast, 24 ovarian? 24 these grow very slow, so every time we do experiments 25 Q. Yes.

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Page 379 Page 381 with normal epithelial cells, we back up. We have -that other proteins and media may be interfering we wake up some more cells just in case something tri-lysate. What does that mean? 2 2 3 3 happens, so we can use them. Does that make sense? A. This is an ELISA assay to determine CA-125 Q. Yes. And going back to page 20, why, 4 levels. So when you determine -- CA-125 is a protein 5 though, do you have numbers 383 through 386, but then 5 that is made by the cell inside the cells, and also you also have crossed through data with regard to the secreted outside the cells. 6 6 7 5, 20 and a hundred? Doesn't that appear that these 7 So when -- we try to do to determine 8 in the media first how much we have there in the media, 8 test results weren't done --9 MS. O'DELL: Object to the form. and if -- also we wanted to determine how much they are 9 10 BY MR. HEGARTY: 10 in the lysate inside the cell. That's what I meant by Q. -- or these tests weren't done? this. Lysate means inside the cell. Media means 11 11 12 I answered you. 12 outside the cell. A. Why do you have lines through the 5, 20 and Q. When it says other the proteins and media 13 13 O. may be interfering, what is that referring to? 14 100? 14 A. May be interfering, maybe. We don't know. 15 A. Here? 15 16 Here. 16 So we're just assuming that, so that's why we run both. Q. 17 Q. You report on this same page using a Okay. 17 thousand micrograms per milliliter of tale in this 18 MR. LAPINSKI: When you say here, 18 19 you're referring to page 20? 19 experiment --THE WITNESS: On page 20. So they 20 20 A. Correct. were missed, -- they were -- see the numbers are 21 21 O. -- is that correct? 22 different? We crossed them. We give them the right --22 Correct. A. 23 the corresponding correct numbers. 23 Q. But again, you reported, again, we noted a BY MR. HEGARTY: moment ago that a thousand was killing the cells, 24 24 Q. Okay. 25 25 correct? Page 380 Page 382 A. And this is my handwriting. I crossed that. A. No. 1 1 Q. So you do have -- do you have other 2 MS. O'DELL: Object to the form. 2 handwriting in this part of the notebook of yours? 3 3 THE WITNESS: No. 4 A. This is Nicole, and this is me. 4 MS. O'DELL: That's not what he 5 Q. You're on the right side of page 20? 5 said. 6 A. Right side, this is me. I crossed this, and 6 THE WITNESS: That's not what I 7 7 said. Thank you. I put the numbers. 8 Q. And you're pointing on the -- to the ride 8 BY MR. HEGARTY: side of page 20? 9 9 Q. What did you say? 10 A. Correct. The 383, 384, 385, 386 where it 10 A. I said we could not get RNA from the treatment of the thousand. We got media in cells, the says okay, that's me. Yeah. So my answer about these 11 cells, that the -- because they're slow growing, lysate. There's something -- I need to explain this. 12 12 they're very, very slow growing, everybody knows this, 13 Do you want me to? 13 we -- we always -- when we do experiments with them, we Q. Which part do you want to explain? 14 back up. So we add -- we seed more just in case, so we The mixup between the lysate, the media, RNA 15 15 16 don't have to wait another three, four weeks. 16 versus protein versus enzymes. There's like really a 17 Q. Would you look at page 13 of that same part 17 mixup here. of the notebook, please? Q. Really a what? 18 18 A. Show me, please. 19 A. Mixup. Mixup. We're mixing it. 19 Q. Dated 1-12-18 at the top. Q. When you say mixup, what do you mean? 20 20 A. It means you refer to treatment with a 21 21 22 Q. It says at the top, protein levels for 22 thousand, with -- for RNA to the same treatment with a 23 CA-125 assay, correct? 23 thousand for the media collected from cells. Q. Okay. We'll -- we'll come back --24 A. Yes. 24 25 25 Q. At the very bottom of that notebook, it says Okay. A.

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Page 383 Page 385 Q. -- to your explanation if we need to. cells, so that's we went and titrated down to the 1 A. If you need to. lowest dose, which is 5, 20 and a hundred. And for 2 2 3 3 Q. If you look over on page 19 of this same CA-125. I believe we did that. part of the notebook. Tell me when you're there, 4 Q. Nicole wrote on 1-31-18 on that page 19 that 5 5 we need to decrease dose. Why did she say we need to page 19. decrease dose, if you know? 6 A. Oh. 6 7 7 A. Because it is physically killing some of the Q. I think you're on page 20. 8 A. Sorry. Dated January 29? 8 cells or most of the cells. 9 Q. At the top. 9 Q. Is it your testimony that the data for 10 10 A. Yes, thank you. CA-125 run with a thousand micrograms per milliliter is Q. At the bottom, there's a date of January 31, 11 still valid data? 11 2018. It says, the presence of 1,000 micrograms per 12 A. Yes. 12 milliliter is physically killing the cells. We need to 13 MS. O'DELL: Object to form. 13 decrease dose. First of all, whose handwriting is THE WITNESS: Yes. 14 14 15 that? 15 BY MR. HEGARTY: 16 A. That's Nicole. 16 Q. Even though the data came from tests where 17 Q. So I just asked you a moment ago about your 17 the dose was physically killing the cells? use of a thousand micrograms per milliliter for the A. Yes, part of the cells. 18 18 CA-125 test results. So how can you get valid test Q. How are you able to know that it was only 19 19 results for CA-125 when -- for a thousand micrograms part of the cells and not all of the cells? 20 20 per milliliters of -- of dose, when the dose is A. We can see it under the microscope. This is 21 21 22 physically killing the cells? 22 the exact same reason how she determined physically 23 A. Yes. So it's physically killing the 23 killing the cells. So you look at them. cells. It doesn't mean it's killing all cells in the Q. If you look at the --24 24 media. It's killing part of the cells, not the whole A. And also, if I may add, we confirmed it with 25 25 Page 384 Page 386 cells. So we still got media, we still got protein out the lower dose, and we got similar effects. So that's why we believe it is a valid data. 2 of it. 2 Q. If you turn over to page 15 of that same 3 3 O. But how do you know that the -- the results 4 of the tests are not affected by the toxicity of the 4 part of the notebook, at the very bottom there's a 5 dose to the cells? statement that says, lysate protein measurements may be 6 A. Good question. affected by talc. Whose handwriting is that? 6 7 MS. O'DELL: Object to the form. 7 A. Nicole. 8 THE WITNESS: Good question. That's 8 Q. What does that mean? 9 9 A. It means the yield of the protein, how much why we repeated this in here. 10 MS. O'DELL: Refer to the page. 10 protein you get from cells isolated from talc. So when THE WITNESS: So we -- we -- this you treat cells with talc, the protein yield that you 11 11 was just a pilot experiment, as I indicated, and that's get, that's why we do a normalization, is affected 12 12 why we repeated it in detail here. If you go to ELISA 13 13 because there is a differential expression of genes. section here, and you can here under the ELISA section Something is going on. 14 14 there's a CA-125 with the new doses, 5, 20 and a O. If you look at the very end of that first 15 15 16 hundred. It's right here. 16 exhibit. It's page 24 of that -- of the part of the MS. O'DELL: What pages are you 17 notebook we've been looking at, page 24. 17 A. This is here. This belongs -- this is not 18 referring to? 18 THE WITNESS: I will tell you in one right. This is here. 19 19 second. It is page 63. It's called CA-125 ELISA. Q. No, this is a -- we're look at something 20 20 21 BY MR. HEGARTY: 21 different. 22 Q. I understand that you -- why did you go 22 A. Oh, sorry. 23 from -- why did you go from a thousand to a hundred? 23 Q. Go to page 24 of the part of the notebook A. Because, as I told you, physically it was we've been looking at? 24 24 affecting the cells. So we don't want to stress the 25 A. 24. This here? 25

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Page 387 Page 389 Q. Well, it says CDNA at the top of page 23. 1 Q. Correct. 1 2 That's -- that's -- yeah, that's not -- CDNA 2 A. Yeah, this is here. 3 3 Q. Okay. You're saying the data that you're was not done for this one. 4 pointing to on 24 is in the --4 Q. That was going to be my next question. What 5 A. This --5 data was -- what other tests were done with the samples 6 6 that we talked through on page 20 of the 5, 20 and a Q. -- poster? 7 7 hundred? A. -- this mistakenly put here. It should be here. This is in the poster. It's exact identical 8 8 A. Okay. PCR data, no PCR data. We haven't 9 9 done anything PCR here from these data. data. 10 MS. O'DELL: Just what you're saying 10 Q. Did you do anything with those data? A. Those data, let's see. Those data are the 11 that the data --11 same. I'm sorry. Sorry. I take that back. I 12 THE WITNESS: 24 page here is 62, 63 12 misunderstood the question. Okay. 13 13 here. MS. O'DELL: Of Exhibit 3? MS. O'DELL: Why don't you repeat 14 14 THE WITNESS: Of Exhibit 3. 15 15 the question? 16 MS. O'DELL: Okay. 16 THE WITNESS: Yeah, please, please, 17 THE WITNESS: It's mistakenly put 17 because I'm confused going back and forth, so sorry. BY MR. HEGARTY: 18 18 here. BY MR. HEGARTY: 19 Q. Well, I'm looking for --19 20 20 Q. Where is the data for the 20, 100 and a A. Sorry. 21 -- any other tests that you ran with these 21 thousand for all of the charts that you have on the Q. 22 back? 22 samples. 23 A. It's here. It's all here. 23 A. What samples? 24 Samples --24 In which notebook? Q. Q. 25 A. It's -- this is 3, and it starts from page 25 356? Page 388 Page 390 38 all the way down. Q. 5 through 20 -- 5, 20 and a hundred on page 1 Q. Why is the 5 microgram per milliliter data 2 2 20. 3 3 A. 356, 357, all that? not reported? 4 A. Oh. Okay, sorry. This is the first 4 Q. Correct. 5 experiment we did long time ago. We did it with a A. The whole manuscript is all about that. I hundred -- with 20, and a hundred, and a thousand. was thinking of the other one, I'm sorry. 6 O. So the samples that you list in the first 7 This is for the first experiment that we did, and we 8 were actually surprised to see the effect. So that's part of the notebook were carried over to the next part 9 of the notebook? the whole idea of this experiment. That's why we 10 reported this. A. This is exactly the same as here. We just We didn't even look what goes up, 11 rewrote it to make it clear. That's -- I said that 11 what goes down. We -- we just -- the fact that there already. It's exact same treatment, exact same thing. 12 12 was a biological effect upon talc treatment was very 13 MS. O'DELL: And you refer -- excuse 13 intriguing to us. This was done September through me, I'm sorry. If he refers to the pages, so --14 14 THE WITNESS: On 20, page 20, the 15 15 October of 2017. 16 Q. If we go -- if you look again, page 22 16 cell treatment and the ID number is carried over here, 17 and 23 from that same part of the notebook we've been 17 and clearly written in -- on page 32 for the record. BY MR. HEGARTY: looking at. 18 18 MS. O'DELL: Exhibit 23. Q. In that poster, though, you don't report on 19 19 20 any 5 microgram data, correct? 20 THE WITNESS: Here? 21 MR. HEGARTY: Yes. 21 A. Correct. 22 BY MR. HEGARTY: 22 Why not? 23 Q. There you list RNA data and CDNA data, 23 A. Because I told you, this was -- okay, one more time. This work was the initial experiment that 24 correct? 24 25 we did to see if there is an effect of talcum powder on 25 A. CDNA data?

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	Page 201		Page 202
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	cells. MS. O'DELL: And you referred to Exhibit 3, page THE WITNESS: Yes. I don't know. MS. O'DELL: Yeah. This MR. HEGARTY: Okay. THE WITNESS: You keep mixing me up, so BY MR. HEGARTY: Q. All right. I think I'm following you now, okay. A. Okay. Q. On MS. O'DELL: Excuse me. I'm sorry, Mark. Were you finished? So you were referring to exhibit THE WITNESS: Yeah. So this this poster was done from the initial observation on this, all that's in Exhibit 3. BY MR. HEGARTY: Q. Okay. A. Okay. And this is data dated from September to October, okay? MS. O'DELL: 2017. THE WITNESS: 2017, okay. At that	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	something called supernatant? A. Supernatant. Q. Supernatant. What is that? A. It's the media of the cells. Q. Why do you run tests on be the media? A. Because you want to see if there is an effect on which one is this? Oh, I'm sorry. Hold on one second. Supernatant. MS. O'DELL: I'm sorry. Just to clarify, Dr. Saed, you're looking at the 2017 poster? THE WITNESS: I'm sorry. Yeah, thank you for reminding me. MS. O'DELL: Are you asking I understood the question to correspond to the 2018 experiments, but THE WITNESS: Okay. Let me answer this. So supernatant is when you dissolve the talc powder with DMSO, the solvent, you have two phases, media, like soluble phase, and the talcum particles, correct. So we wanted to see if there is if there is an effect from the supernatant without the particles. That's all. BY MR. HEGARTY: Q. Did you see any effect? A. There is some effect.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	time, we did 20, a hundred, and a thousand, at that time. And so now we repeated this in February of '18. MS. O'DELL: 2018? THE WITNESS: This is when 2018. And this is when we did the 5, the 20, and a hundred. BY MR. HEGARTY: Q. You list in this poster results for a thousand micrograms per milliliter? A. Correct. Q. Again, how are you able to verify that that's valid data, when you reported in your study lab book that a thousand micrograms per milliliter was killing the cells? MS. O'DELL: Object to form. THE WITNESS: Okay. I just answered this. MS. O'DELL: Repeat your answer THE WITNESS: Physically killing some cells, that doesn't mean you cannot get RNA, you cannot get to do the assay. That doesn't it's not the optimal condition, but you still can do the experiment, okay. And to confirm that, when we did it with the lower dose, we got the results. BY MR. HEGARTY:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. What was the what was the reason for the effect? A. Because we could not fully isolate the particles from the supernatant. So that's why we believe the effect comes from the particles. Q. When you say the effect comes from the particles, what do you mean? A. The the talcum particles. Q. And what effect are you talking about? A. The effect we see here, the changing the changing oxidative stress markers, the effect that we observe in the that we report in the poster? MS. O'DELL: Just for the record, the poster as contained in Exhibit 3 at pages 60 what are the pages in the notebook that are at issue? THE WITNESS: 38 to 68. MS. O'DELL: Okay. Thank you. BY MR. HEGARTY: Q. If you look at the very first page, the index of the part of the notebook we've been looking at? A. This? Q. Exhibit 2. A. Yep.

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	Page 395		Page 397
1	of January 7, 2018 for protein extraction samples?	1	BY MR. HEGARTY:
2	A. Um-hum.	2	Q. This was the notebook that you brought to
3	Q. Do you see that?	3	the deposition the last time, correct?
4	A. Yes.	4	A. Correct.
5	Q. Then if you turn over to page 20 of that	5	Q. You said this was your first study involving
6	same part of the notebook	6	Fisher talc where you exposed three ovarian cell lines
7	A. Um-hum.	7	and macrophages of epithelial cells and presented the
8	Q this shows that you're seeding the cells	8	work for the poster to the SRI, correct?
9	and treating the cells on February 1st, 2018. How can	9	A. Yes. Just to clarify, macrophages and
10	you do protein extraction on January 1st when you're	10	ovarian epithelial.
11	not doing the tests until February 1st?	11	Q. Do you see pages the first few pages of
12	MS. O'DELL: Exhibit 1.	12	this part this part of the notebook, there are
13	THE WITNESS: Let's see. 53. Where	13	several dates that are whited out and written over. Do
14	is 53. Okay. Yeah. Good question. So if you go to	14	you see those dates?
15	page it says here go to page 53, okay.	15	A. Where?
16	BY MR. HEGARTY:	16	Q. For example, on 9-26, the very first date,
17	Q. Right.	17	9-26-2017, there's whiteout there in the left-hand
18	A. And again, we're mixing up between two	18 19	corner? A. Yeah.
19 20	things, okay. I'm sorry, can I say it again? MS. O'DELL: Explain it in detail	20	
21	THE WITNESS: Yeah, yeah.	21	Q. Look over on the next the page before.A. (Gesturing).
22	MS. O'DELL: so the record is	22	Q. Correct. You're pointing to what what
23	clear, please.	23	page number is that at the bottom?
24	THE WITNESS: This this go to	24	A. 38.
25	page 53, please.	25	Q. There is a whiting out, and written over the
			(
	Page 396		Page 398
1	BY MR. HEGARTY:	1	1.4
2	O Okov I'm thora	1	whiteout is 26-2017. Do you see that?
	Q. Okay, I'm there.	2	A. Yes.
3	A. Okay. This is for ELISA for protein	2 3	A. Yes. Q. Why is that?
3 4	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the	2 3 4	A. Yes.Q. Why is that?A. No idea.
3 4 5	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each	2 3 4 5	A. Yes.Q. Why is that?A. No idea.Q. Then if you look down, there's also a
3 4 5 6	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it	2 3 4 5 6	 A. Yes. Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written
3 4 5 6 7	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This	2 3 4 5 6 7	 A. Yes. Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that?
3 4 5 6 7 8	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA.	2 3 4 5 6 7 8	 A. Yes. Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that? MS. O'DELL: What page are you on
3 4 5 6 7 8 9	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA. Q. Okay.	2 3 4 5 6 7 8 9	A. Yes. Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that? MS. O'DELL: What page are you on there?
3 4 5 6 7 8 9 10	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA. Q. Okay. DEPOSITION EXHIBIT 24	2 3 4 5 6 7 8 9 10	A. Yes. Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that? MS. O'DELL: What page are you on there? THE WITNESS: Yes.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Okay. This is for ELISA for protein extraction. That for MRNA. That's why we have the book is not in chronological order, and we label each section, and we left pages so we can write it, fill it in. That's why. You see different two assays. This is protein, ELISA enzymes, and this is RNA. Q. Okay. DEPOSITION EXHIBIT 24 Lab Notebook WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. We're going to look at the second next notebook for a bit, Doctor. I'm marking as Exhibit 24 a copy of the other notebook that we were provided, Number 3. MS. O'DELL: Exhibit 3? MR. HEGARTY: Exhibit 3, yeah. MS. O'DELL: What number did you mark the the new exhibit? Exhibit 24? THE WITNESS: 24.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. Why is that? A. No idea. Q. Then if you look down, there's also a whiteout over 9 whiteout in 9-29-2017 is written over. Do you see that? MS. O'DELL: What page are you on there? THE WITNESS: Yes. MR. HEGARTY: We're on page 38. BY MR. HEGARTY: Q. Do you know, why is that whited out? A. No idea. A mistake. MS. O'DELL: And Doctor, if you can identify the wording under the whiteout, don't guess, but THE WITNESS: Sometimes you can, sometimes you cannot. It says, for example, page 38, the whiteout says biologic. BY MR. HEGARTY: Q. Can you A. This is like procedure. It's like methods.

	Page 399		Page 401
1		1	Page 401
2	you tell from the original notebook what what the date was that or the dates were that were whited out?	1 2	A. For iNOS? Q. Yes.
3	A. I can't tell.	3	A. Yes, whatever is written here. It is
4	MS. O'DELL: Object to the form.	4	reported 20 control and a hundred control for this, and
5	THE WITNESS: I cannot tell.	5	you want to see if it's done for another molecule, like
6	BY MR. HEGARTY:	6	GPX1, for example?
7	Q. Okay. Turn over to page 51, please.	7	Q. No, not right now.
8	A. iNOS.	8	A. Okay.
9	Q. Are you there, Doctor?	9	Q. Not right now. You did not do the a
10	A. iNOS, yes.	10	5 microgram per milliliter sample here?
11	MS. O'DELL: When you say iNOS	11	A. Oh, my God. Okay. No, I did not.
12	THE WITNESS: iNOS, the molecule.	12	Q. Okay. You're still doing a thousand
13	MS. O'DELL: How do you spell that?	13	micrograms per milliliter test with this part this
14	THE WITNESS: I, and then NOS,	14	test, correct?
15	N-O-S.	15	A. I did 20, a hundred, and a thousand.
16 17	MS. O'DELL: Okay. BY MR. HEGARTY:	16 17	Q. Please go to page 53. A. GPX?
18	Q. If you look under the in the table where	18	
19	it says SKOV dash 3 cells?	19	Q. I'm sorry, go to page 52 first. A. Still GPX.
20	A. Yes, SKOV.	20	Q. Are you at page 52?
21	Q. You're on the wrong page.	21	A. Um-hum.
22	A. Oh, sorry. Yes. SKOV control.	22	Q. It says, in the chart that has data at the
23	Q. Yeah, there's a control for 20 micrograms	23	top, normal ovarian OV epithelial control for 20, then
24	per milliliter talc, and then also a listed control for	24	it says 100. What does that mean?
25	100 microgram per milliliter talc. Do you see that?	25	A. So this is normal ovarian for a thousand,
	Page 400		Page 402
1		1	·
1 2	A. Yes.	1 2	Page 402 normal oh. Yes, I think she did the control for 20 and a hundred at one time.
1 2 3		1 2 3	normal oh. Yes, I think she did the control for 20 and a hundred at one time.
2	A. Yes.Q. Wasn't there only one control for each cell	3	normal oh. Yes, I think she did the control for 20
2 3 4 5	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes.	3	normal oh. Yes, I think she did the control for 20 and a hundred at one time. Q. How can you do a control for 20 and a hundred at the same time? A. Because they're very close doses, so we
2 3 4 5 6	 A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. 	3 4 5 6	normal oh. Yes, I think she did the control for 20 and a hundred at one time. Q. How can you do a control for 20 and a hundred at the same time? A. Because they're very close doses, so we don't as you just said to me, you really didn't need
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. Q. You had one set of control cells for each dose? A. Correct. Q. Does the notebook report the treating of the controls for each of the cell lines? A. What notebook? Q. The notebook we're looking at. A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment. Q. Does it report the treatment of controls anywhere besides in the in the chart? In other words, is it reported elsewhere in the notebook? A. I don't remember. MS. O'DELL: For which finding?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	normal oh. Yes, I think she did the control for 20 and a hundred at one time. Q. How can you do a control for 20 and a hundred at the same time? A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it. Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those? A. Correct. Will serve for both, yes. Q. Do you know which dose she applied to the control? Was it 20 or a hundred? A. No, the control, you don't apply those.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. Q. You had one set of control cells for each dose? A. Correct. Q. Does the notebook report the treating of the controls for each of the cell lines? A. What notebook? Q. The notebook we're looking at. A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment. Q. Does it report the treatment of controls anywhere besides in the in the chart? In other words, is it reported elsewhere in the notebook? A. I don't remember. MS. O'DELL: For which finding? THE WITNESS: I don't remember for	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	normal oh. Yes, I think she did the control for 20 and a hundred at one time. Q. How can you do a control for 20 and a hundred at the same time? A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it. Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those? A. Correct. Will serve for both, yes. Q. Do you know which dose she applied to the control? Was it 20 or a hundred? A. No, the control, you don't apply those. Q. Well, do you apply the DMSO?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. Q. You had one set of control cells for each dose? A. Correct. Q. Does the notebook report the treating of the controls for each of the cell lines? A. What notebook? Q. The notebook we're looking at. A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment. Q. Does it report the treatment of controls anywhere besides in the in the chart? In other words, is it reported elsewhere in the notebook? A. I don't remember. MS. O'DELL: For which finding? THE WITNESS: I don't remember for what month are you referring to.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	normal oh. Yes, I think she did the control for 20 and a hundred at one time. Q. How can you do a control for 20 and a hundred at the same time? A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it. Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those? A. Correct. Will serve for both, yes. Q. Do you know which dose she applied to the control? Was it 20 or a hundred? A. No, the control, you don't apply those. Q. Well, do you apply the DMSO? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. Wasn't there only one control for each cell line? A. For this experiment? Q. Yes. A. No, there wasn't. Q. You had one set of control cells for each dose? A. Correct. Q. Does the notebook report the treating of the controls for each of the cell lines? A. What notebook? Q. The notebook we're looking at. A. Yeah. It says right there, 20 microgram control, hundred microgram control, 20 microgram treatment, hundred microgram treatment. Q. Does it report the treatment of controls anywhere besides in the in the chart? In other words, is it reported elsewhere in the notebook? A. I don't remember. MS. O'DELL: For which finding? THE WITNESS: I don't remember for	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	normal oh. Yes, I think she did the control for 20 and a hundred at one time. Q. How can you do a control for 20 and a hundred at the same time? A. Because they're very close doses, so we don't as you just said to me, you really didn't need to do more than one control, but because the doses are big, there's a huge difference in the dose, like between 20, a hundred, and a thousand, there's a huge difference, that's why we have control for both. But for 20 and a hundred, we found from here, from the other previous studies that they we didn't need to do it, so she didn't do it. Q. But isn't there okay, I see. So you think that for purposes of this test, that the control for the 20 and the 100 was the same control, one control for both of those? A. Correct. Will serve for both, yes. Q. Do you know which dose she applied to the control? Was it 20 or a hundred? A. No, the control, you don't apply those. Q. Well, do you apply the DMSO?

	Page 403		Page 405
1	Q. I gotcha.	1	that it is statistically significant, when the p-value
2 3	A. Thank you.	2	from the data we're looking at is .291?
3	Q. Go to page 53 now, please.	3	A. So maybe the asterisk again, this this
4	A. Okay.	4	is PowerPoint, and the asterisk can be shifted easily,
5	Q. If you go down to the table where you're	5	so if we're not hiding it. This is the data, 29.
6 7	reporting on A2780 cells	6	Anybody knows it's not statistically significant, and
8	A. Yes. Q particularly the 1,000 microgram per	/ Q	so maybe these asterisks were shifted or something. I cannot tell you, but the data is right here. The data
9	milliliter tale, do you see that part of the table?	9	is in front of you.
10	A. I do.	10	Q. But the data is not included in your poster,
11	Q. The p-value noted there is .291, correct?	11	correct?
12	A. Yes, correct.	12	A. Correct.
13	Q. That's not statistically significant,	13	Q. So anyone looking at the poster would not
14	correct?	14	have access to the data we're looking at on page 53,
15	A. Correct.	15	correct?
16	Q. That's for GPX1, right?	16	MS. O'DELL: Object to the form.
17	A. Correct.	17	THE WITNESS: They don't have the
18 19	Q. Go back to the then, your poster A. Okay.	18 19	data, yes, but they can ask. BY MR. HEGARTY:
20	A. Okay.Q for this experiment.	20	Q. Turn over to page 55 of that part of the
21	A. Okay. GP GPX1.	21	notebook, please.
22	Q. If you look at the GPX1	22	A. 55.
23	A. A2780.	23	Q. We're again looking at the data for SOD3,
24	Q it's in the right hand on the	24	and in particular the A2780 cells. Do you see for the
25	right-hand side, the middle graph, correct?	25	100 microgram and 1,000 microgram treatments that your
	Page 404		Page 406
1	A. Yes.	1	p-values are above .05? They're .1692 and .1029? Do
3	Q. For the 1,000 dose average for the A2780,	2	you see that, Doctor? A. Yes.
4	don't you list that as being statistically significant? A. Let me look. So this which color would	4	Q. And if you turn back to the poster and look
5	be this? That's the purple color. That's comparing	5	at SOD3 on the left-hand side, the third graph down,
6	comparing to this purple color. Okay. So this is	6	for the 2780 for the hundred and the thousand I'm
7	comparing it to the 20 dose. Yeah, you see okay.	7	sorry, it's the fourth fourth graph down, for the
8	So this this	8	hundred and the thousand, you're reporting those to be
9	MS. O'DELL: What are you referring	9	statistically significant at a p-value of less than
10	to?	10	.05, correct?
11	BY MR. HEGARTY:	11	MS. O'DELL: Do you need if you
12	Q. The p-value?	12	need to see that the poster in larger, if it's
13	A. The p-value here is comparing the thousand	13	difficult to read, i f you can read it, fine, great.
14 15	to its control. The p-value here, if you see the	14	THE WITNESS: Yeah.
16	asterisk, it's comparing it to the treatment, to the 20 microgram treatment, I believe. I'm not sure.	15 16	MS. O'DELL: If you cannot, then I'll provide it to you electronically.
17	Q. But doesn't the	17	THE WITNESS: What I am concerned
18	A. Yes.	18	about I have a concern here. So what I'm concerned
19	Q description doesn't the description	19	about, that these asterisks were shifted, so but the
20	under the the graph say it's comparing to	20	data is what we go with. I'm not I'm not really
21	A. Let me see.	21	sure. I mean, I wouldn't say significant if the data
22	Q to controls?	22	say it's not significant, okay.
23	A. Versus control, you're right, so yeah,	23	BY MR. HEGARTY:
24	that's statistically significant. That wasn't okay.	24	Q. At least the on 55, page 55, it shows the
25	Q. Why do you list in that in that graph	25	data are not statistically significant, correct?

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1 poster that we're looking at right now, and I don't 2 Q. Well, I'm sorry. Fair point. 3 A. Yeah. 4 Q. The ones we looked at 5 A. Yes. 6 Q the 2780 for a hundred and the 2780 for a 7 thousand are not statistically significant? 8 A. For this specific mark, yes. 9 Q. Correct, okay. 10 A. Yeah. So I'm concerned about this maybe 11 shifted or something. I don't know what the answer is. 12 Q. The poster that we've been looking at, was 13 this a poster that you presented at SRI? 14 A. SRI. 15 Q. The SRI meeting in March? 16 A. March 1 poster that we're looking at right now, and I don't 2 know where it is. 3 A. Okay. 4 Q. The only abstract I could find for 5 March 2018 to SRI was 25. 6 A. That was the breaking late-breaking abstract, CA-125, but there is an abstract for this. 8 Q. And okay. We'll come back once we look through your documents to see if we can find the abstract that corresponds to that. 11 A. So when you say you didn't find it, you didn't find it online? 12 Q. I did not find it in the documents that have been produced, or at least I I overlooked it. And we'll go through all the abstracts to make sure that I'm	: 409
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15 Q. The SRI meeting in March? 15 we'll go through all the abstracts to make sure that 16 A. March 16 I'm	
16 A. March 16 I'm	
17 MS. O'DELL: 2017? 17 MS. O'DELL: I think you	
18 THE WITNESS: 2017? 18 BY MR. HEGARTY:	
19 BY MR. HEGARTY: 19 Q incorrect or correct.	
20 Q. Yes. 20 MS. O'DELL: It was produced in the	
21 A. No. 21 documents that were provided to you.	
22 Q. March 2018? 22 MR. HEGARTY: Which one are you	
23 A. 2018. 23 referring to that you think corresponds with that?	
MS. O'DELL: 2018, excuse me. 24 MS. O'DELL: Let me ask Dr. Saed, is	
25 THE WITNESS: March 2018. 25 that the abstract that corresponds with the poster?	
D 400	410
	410
1 BY MR. HEGARTY: 1 You might not	
2 Q. Was there an abstract that went along with 2 THE WITNESS: Talcum powder enhan	ed
3 that? 3 oxidase yes.	
4 A. I don't understand your question. 4 MS. O'DELL: And it's the it was	
5 Q. Well, you have a poster there, correct? 5 labeled Saed Lecture 2018A, Oxidative Stress.	
6 A. Yes. 6 BY MR. HEGARTY:	
7 Q. Was there an abstract that was published for 8 the meeting that went along with the poster? 7 Q. And I'll tell you the reason that I didn't 8 connect this abstract with that poster is because this	
8 the meeting that went along with the poster? 9 A. Yeah. You submit an abstract first to the 9 abstract describes cells treated for with 0, 200 and	
10 meeting, and then they accept it, and then they publish 10 500.	
11 it, yes. 10 Soo. 11 A. This abstract is from 0, 200 and 500. And	
12 DEPOSITION EXHIBIT 25 12 this is 0, 200, 500. I don't remember. I don't	
13 Abstract for March 2018 SRI Meeting 13 remember this.	
14 WAS MARKED BY THE REPORTER 14 MS. O'DELL: I'll take it back,	
15 FOR IDENTIFICATION 15 Doctor, if it's not the same.	
16 BY MR. HEGARTY: 16 THE WITNESS: Yeah, I don't I	
Q. I'm marking Exhibit 25, which was what we 17 don't remember. It's different maybe. I don't know	
18 also looked at last time. Is Exhibit 25 the abstract 18 what it is.	
18 also looked at last time. Is Exhibit 25 the abstract 18 what it is. 19 for the March 2018 SRI meeting? 19 BY MR. HEGARTY:	
19 for the March 2018 SRI meeting? 20 A. Yeah, but that's for a different. That's 21 for CA-125. 19 BY MR. HEGARTY: 20 Q. When we're finished walking through your 21 documents	
19 for the March 2018 SRI meeting? 20 A. Yeah, but that's for a different. That's 21 for CA-125. 22 Q. Exactly. 19 BY MR. HEGARTY: 20 Q. When we're finished walking through your 21 documents 22 A. Yes.	
19 for the March 2018 SRI meeting? 20 A. Yeah, but that's for a different. That's 21 for CA-125. 22 Q. Exactly. 23 A. Oh, you're done with this? 21 for the March 2018 SRI meeting? 20 Q. When we're finished walking through your 21 documents 22 A. Yes. 23 Q we'll see if we came across an abstract	
19 for the March 2018 SRI meeting? 20 A. Yeah, but that's for a different. That's 21 for CA-125. 22 Q. Exactly. 19 BY MR. HEGARTY: 20 Q. When we're finished walking through your 21 documents 22 A. Yes.	

	Page 411		Page 413
1	Q. Stay with this poster for a little bit	1	talcum powder. And we only did PCR here. This is very
2	longer.	2	preliminary.
3	A. Oh.	3	Q. Okay.
4	Q. Go back to it, please. Would you look at	4	A. That's why we repeated this is why we
5	the Results section, please, Doctor?	5	repeated the whole study with the tri-purses (ph), and
6	A. Of the abstract?	6	we extensively did the enzymes, the ELISAs, everything.
/	Q. Of the poster.	7	Q. Do you have a copy of your manuscript there,
8	A. Sorry.	8	Doctor, the one for Reproductive Sciences?
	Q. Do you see the results in the lower left-hand corner?	9 10	A. Do I have a copy of that? Q. I'll show you. It's been marked previously
10 11	A. The conclusion you're talking about?	11	as Exhibit 7. That's your manuscript to Reproductive
12	Q. No, the Results section?	12	Sciences, correct?
13	A. Oh, I'm sorry, yes, here.	13	MS. O'DELL: What's the date on it?
14	Q. The Results section says there was a marked	14	THE WITNESS: January 3rd, yes.
15	increase in MRNA levels of the pro-oxidant enzymes iNOS	15	MS. O'DELL: Okay.
16	and MPO in talc-treated ovarian cancer cell line	16	BY MR. HEGARTY:
17	macrophages in normal ovarian epithelial cells, all as	17	Q. Turn over to page seven of Exhibit 7,
18	compared to their controls. Then it cites the figure.	18	please.
19	A. Um-hum.	19	A. Exhibit 7, page seven. Okay.
20	Q. Additionally, there was a marked increase in	20	Q. About three-fourths of the way down, you're
21	the MRNA levels of the anti-oxidant enzymes CAT, SOD3,	21	reporting on anti-oxidant enzymes GPX and GSR for both
22	GSR, GPX1 and GS1P1, in talc-treated ovarian cancer	22	PCR and ELISA assays, correct?
23	treated cells in normal ovarian epithelial cells, as	23	A. Correct.
24	all compared to their controls, correct?	24	Q. You report there that GPX and GSR were
25	A. That's what it says.	25	significantly decreased in response to talc treatment
	Page 412		Page 414
1	Page 412 Q. So in this experiment, you show that both	1	Page 414 under both PCR and ELISA assays, correct?
1 2		1 2	•
	Q. So in this experiment, you show that bothpro and anti-oxidants had a marked increase, correct?A. Let me check this. Hold on one second. So		under both PCR and ELISA assays, correct?
2	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes	2 3 4	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct?
2 3 4 5	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up.	2 3 4 5	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct.
2 3 4 5 6	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes.	2 3 4 5 6	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a
2 3 4 5	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an	2 3 4 5 6 7	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant
2 3 4 5 6 7 8	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the	2 3 4 5 6 7 8	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the
2 3 4 5 6 7 8 9	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of	2 3 4 5 6 7 8 9	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite?
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2 3 4 5 6 7 8 9 10 11 12	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here.	2 3 4 5 6 7 8 9 10 11 12	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data, okay. In science, this is a common practice. PCR data	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose. Here, this is done with this is a very preliminary,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data, okay. In science, this is a common practice. PCR data is preliminary. It's an indication.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose. Here, this is done with this is a very preliminary, just to see if there is a biological effect.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data, okay. In science, this is a common practice. PCR data is preliminary. It's an indication. If you don't complement it with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose. Here, this is done with this is a very preliminary, just to see if there is a biological effect. After we saw there is a biological
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data, okay. In science, this is a common practice. PCR data is preliminary. It's an indication. If you don't complement it with protein and MRNA and protein ELISA activity, it is not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose. Here, this is done with this is a very preliminary, just to see if there is a biological effect. After we saw there is a biological effect, we did a comprehensive design of a study where
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data, okay. In science, this is a common practice. PCR data is preliminary. It's an indication. If you don't complement it with protein and MRNA and protein ELISA activity, it is not very accurate. So we here objective, this was the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose. Here, this is done with this is a very preliminary, just to see if there is a biological effect. After we saw there is a biological effect, we did a comprehensive design of a study where we do 5, 20, a hundred doses for the right time,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. So in this experiment, you show that both pro and anti-oxidants had a marked increase, correct? A. Let me check this. Hold on one second. So iNOS increased, MPO increased, GPX goes down, SOD3 goes up, GSR goes up. Some goes up. Catalase goes up. Yes. Q. But in your manuscript, you reported an increase in pro-oxidant enzymes and a decrease in the anti-oxidant enzymes. It seems that at least some of your results from your in your later manuscript and your report are different than what you're reporting here. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Is that correct? A. Okay. So this is done only with PCR. The manuscript was done extensively with PCR, and usually PCR data has to be complemented with the enzyme data, okay. In science, this is a common practice. PCR data is preliminary. It's an indication. If you don't complement it with protein and MRNA and protein ELISA activity, it is not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	under both PCR and ELISA assays, correct? A. Correct. Q. That's opposite of what you reported in your abstract, correct? A. Not correct. Q. Well, your abstract said that you reported a marked increase in the MRNA levels of anti-oxidant enzymes that include GSR and GPX1. How is that not the exact opposite? MS. O'DELL: You're referring to the poster, not an abstract? MR. HEGARTY: Yes, the poster. THE WITNESS: Let me explain, please. So this is done, number one BY MR. HEGARTY: Q. Here. You're referring to the poster? A. The poster is done with the Fisher powder. That's number one. This is done with a different dose. Here, this is done with this is a very preliminary, just to see if there is a biological effect. After we saw there is a biological effect, we did a comprehensive design of a study where

Case 3:16-md-02738-MAS-RLS Document 9731-16 Filed 05/07/19 Page 20 of 58 PageID: 33677 Ghassan Saed, Ph.D.

	Page 415		Page 417
1	MS. O'DELL: And you're referring to	1	Q and instead it reads 0, 200 and 500
2	the manuscript?	2	micrograms per milliliter?
3	THE WITNESS: The manuscript.	3	A. Per mil. This this is a this
4	BY MR. HEGARTY:	4	this abstract is this poster. So and I will I
5	Q. Do you remember me strike that. Do you	5	will double-check it, but I think it's a typo. This
6	remember us just looking at an abstract that talked	6	abstract is for the March meeting? Yes, so it is.
7	about results from dosages of talc of 0, 200 and 500?	7	It's gotta be a typo.
8	Do you remember looking at that abstract?	8	Q. Who does the proofreading of your abstracts,
9	MS. O'DELL: What are you referring	9	Doctor?
10	to?	10	A. I do.
11	MR. HEGARTY: Well, the abstract you	11	Q. And it's your testimony that you just missed
12	handed him. I'll show it to you. I'll mark it as	12	the dosages? Instead of having 0, 20 and a hundred,
13	MS. O'DELL: Are you referring him	13	and a thousand, you missed and listed it 0, 200 and
14 15	back to his deposition previously? MR. HEGARTY: No, the one we just	14 15	A. Is that possible? It could be. I don't
16	THE WITNESS: Yeah. This	16	A. Is that possible? It could be. I don't know.
17	MR. HEGARTY: Let me ask a question.	17	Q. Is it your testimony that you did not run
18	MS. O'DELL: I'm sorry.	18	the same tests that you reported in your abstract and
19	DEPOSITION EXHIBIT 26	19	generated data for dosages at 200 and 500?
20	F-098 Abstract	20	MS. O'DELL: Object to the form.
21	WAS MARKED BY THE REPORTER	21	THE WITNESS: This is what I did.
22	FOR IDENTIFICATION	22	It's detailed here in the lab notebook, it's published
23	BY MR. HEGARTY:	23	in the poster. We are not hiding anything. The poster
24	Q. I'm marking for purposes of the deposition	24	was viewed by everybody at SRI meeting, so there's
25	Exhibit 26, which was that F dash 098 abstract that	25	nothing to hide here.
_	Page 416		Page 418
1	counsel for Plaintiffs	1	BY MR. HEGARTY:
1 2	counsel for Plaintiffs MS. O'DELL: Which one was marked?	2	BY MR. HEGARTY: Q. And you're pointing to your poster?
3	counsel for Plaintiffs MS. O'DELL: Which one was marked? MR. HEGARTY: It's the same one that	2 3	BY MR. HEGARTY: Q. And you're pointing to your poster? A. The poster, yes. This is the final outcome
3	counsel for Plaintiffs MS. O'DELL: Which one was marked? MR. HEGARTY: It's the same one that you just had.	2 3 4	BY MR. HEGARTY: Q. And you're pointing to your poster? A. The poster, yes. This is the final outcome of abstract.
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	Page 419		Page 421
1	Q. Can you identify in looking through the	1	Q. Yes, that page.
2	first several pages of this notebook, or throughout,	2	A. This? Okay.
3	whether there is any of your handwriting in this part	3	Q. There looks to be some odd handwriting on
4	of the notebook?	4	that page. Do you know what that is? It looks like
5	A. Any of my handwriting?	5	almost Chinese characters.
6	Q. Correct.	6	A. Yeah. This is a methodology. We just copy
7	A. I don't remember, but I'm sure, if I see it.	7	it.
8	Particularly I don't do it, but I don't see in here	8	Q. I'm talking about the characters that look
9	anything here in my handwriting.	9	like they're Chinese on that page.
10	Q. Keep going.	10	A. Yeah.
11 12	A. Keep going. I can't say yet. What page you are looking for?	11 12	Q. Do you see that?A. Yeah. I don't read Chinese.
13	Q. I'm not looking at any particular page.	13	Q. Is that Chinese?
14	A. You want me to keep going?	14	A. I don't know. I really don't know. But let
15	Q. For example, if you look over at page 63.	15	me explain something, please, so I make you comfortable
16	A. 63?	16	with this. This is a methodology page. This just
17	Q. None of that is your handwriting on that	17	describing the method. We copy it from you know,
18	page?	18	once we do RNA extraction, this is indicate what kit we
19	A. 63.	19	use, what number, and, you know, the most important
20	MS. O'DELL: And you're referring	20	things.
21	to	21	Q. Understood.
22	THE WITNESS: This?	22	A. But I don't know what that means.
23	MS. O'DELL: page 63 as it was	23	Q. My question only was only concerned if
24 25	indicated in the lab notebook	24	you could interpret that dark writing on that page.
23	THE WITNESS: Show me, please.	25	A. I do not read Chinese. I can't read it.
	Page 420		Page 422
1	Page 420 MR. HEGARTY: Correct, yeah.	1	Page 422 Q. Where in this part of the notebook are there
2	MR. HEGARTY: Correct, yeah. THE WITNESS: Can you show me the	2	Q. Where in this part of the notebook are there totals for confluency?
2 3	MR. HEGARTY: Correct, yeah. THE WITNESS: Can you show me the page?	2 3	Q. Where in this part of the notebook are there totals for confluency? A. One more time, please.
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2 3 4 5 6	MR. HEGARTY: Correct, yeah. THE WITNESS: Can you show me the page? MS. O'DELL: Bates 35. THE WITNESS: Yes, this, no, nothing I don't I don't have anything here.	2 3 4 5 6	Q. Where in this part of the notebook are there totals for confluency? A. One more time, please. Q. Where in this notebook are there totals for confluency with regard to your cell tests? A. Can you please explain the word total?
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	Page 423		Page 425
1	A. Yeah.	1	MS. O'DELL: Object to the form.
2	Q. At the very bottom you say, 2 mil cells plus	2	THE WITNESS: She is referring to
3	8 mils medium 100, and then dish. Do you see that?	3	some of these cells here.
4	A. Um-hum.	4	BY MR. HEGARTY:
5	Q. And then underneath that it says, cells	5	Q. What are you pointing to?
6	doubled in one day.	6	A. On the top.
7	A. Um-hum.	7	Q. How do you know she's you're talking
8	Q. Do you see that?	8	about the top of the next page, page 32?
9 10	A. Um-hum.Q. How long does it normally take for	9 10	A. No, same page Q. Okay.
11	epithelial cells to double?	11	A same page. Same page goal, total cells,
12	A. That's not a clear question. Are you	12	macrophages KOV (ph), TOV, A2780, those cells. Now,
13	talking about epithelial ovarian cancer cells?	13	what I'm saying is, this statement refers to the cancer
14	Q. Well, let's talk about cancer cells first,	14	cells, because cancer cells double in one day. We
15	and then normal cells.	15	already know that.
16	A. Cancer cells, they double quick.	16	Q. So you're assuming that's what she's talking
17	Q. How quick?	17	about?
18	A. Very quickly, like next day.	18	MS. O'DELL: Object to the form.
19	Q. How about noncancerous cells, normal ovarian	19	BY MR. HEGARTY:
20	epithelial cell?	20	Q. Correct?
21	A. Normal ovarian epithelial take longer time.	21	A. I know what she's talking about.
22 23	Q. Approximately how much longer?A. It depends on the lot. I think it's like a	22 23	Q. And whose handwriting is this? A. That's Florie probably.
24	week to grow. They're very slow-growing cells. Like,	24	A. That's Florie probably. Q. Under the date 1-29-18 it says subculture
25	for example, normal macrophages, they double quickly.	25	cells. What does that mean?
23	tor example, normal macrophages, they doubte quickly.	23	cens. What does that mean.
	Page 424		Page 426
1	Q. In your cell tests, did all of the cells	1	A. It means you split them.
2	that you tested double in one day?	2	Q. How do you measure cell doubling?
3	MS. O'DELL: Object to the form.	3	A. You start you count them. You start with
4	THE WITNESS: I just told you.	4	half a million, next day you get one million, you use a
5	BY MR. HEGARTY: Q. Where is the data in the lab notebook that	5	hemocytometer, you measure them.
6	reports on the length of time it took for the cells to	6 7	Q. What is the instrument you use?A. Hemocytometer.
8	double?	Q	MS. O'DELL: Would you spell that,
9	A. That's from our past experience with these	9	please?
10	cells. We worked with these cells for 20 years.	10	THE WITNESS: I can't.
11	Q. Why did someone then report, though, here	11	MS. O'DELL: Okay.
12	that certain cells doubled in one day?	12	BY MR. HEGARTY:
13	A. She wants to be extra good.	13	Q. Do you record
14	Q. Can you tell what cells she's talking about	14	A. I can't, I can't.
15	here?	15	Q. Do you record the readings you get from a
16	A. The cancer cells, usually.	16	hemocytometer?
17	Q. Are the cells identified in this part of the	17	A. You don't get reading. Okay. Here's what
18	notebook?	18	we do. We look at the cells. When you put half a
19 20	A. Except for the normal, yes.Q. Well, I'm talking about the entry on 1-29-18	19 20	million tells in 10 millimeter dish, they're like half full. You can look under the microscope, and you see
21	we've been looking at on page 31.	21	half full.
22	A. Here.	22	We got experience because we
23	Q. Can you tell from the entry itself	23	we've worked with these cells for a very long time.
24	A. Oh.	24	And then the next day when you look at the same culture
25	Q what cells she's referring to?	25	dish under the microscope, you'll see it all over the
			* ' *

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Page 429 Page 427 dish, so we -- we reach confluency, we can work with 1 Exhibit Number 27, which was the -- which is the 2 manuscript submission to the Journal of Gynecologic 2 them. 3 3 Oncology; is that correct? You don't want to work with cells when they are spaced out because they don't like to be 4 A. Correct. 5 spaced out. They like to be simulate body where they 5 Q. That shows a submission date of August 22nd, 6 attach, touch each other. 2018. There's a cover letter on about the second page 6 7 MR. HEGARTY: Let's take a short 7 or third page. Do you see that? 8 break, please. Thank you. 8 A. I do. 9 9 THE VIDEOGRAPHER: We're going off Q. That letter is dated August 26th, 2018; is 10 the record, the time is 10:00. 10 that correct? (There was a recess taken.) A. Yes. 22nd. 11 11 THE VIDEOGRAPHER: We're back on the Q. August 22nd, 2018? 12 12 13 record at 10:23. 13 A. Yes. 14 BY MR. HEGARTY: 14 Q. The statistical analysis we just looked at is dated October 6th, 2018, so how could you submit a 15 Q. Dr. Saed, we're going to continue looking at 15 16 what we marked as Exhibit Number 1, which is your 16 manuscript on August 22nd, 2018 when the statistical notebook, Exhibit Number 2. If you turn to page 114 of 17 analysis was not done until October 6th, 2018? 17 that notebook, please. A. Good question. So for the Gynecology 18 18 A. Statistical section? 19 19 Oncology submission, we did not use the statistics from Q. Correct. That section is dated October 6th, here. We just did it our -- the p-value, like what you 20 20 2018, correct? noticed. We didn't -- we didn't submit a 21 21 22 A. Correct. 22 statistical -- professional statistician in the -- in 23 Who was the statistician for your test 23 the manuscript. Just -- it says here, if you look at Q. the materials and method, we just did the simple 24 24 results? p-value comparison test. That's all. 25 A. Steven. I forgot his last name. He 25 Page 428 Page 430 works -- he works with us in the department. O. Do you describe the Finkel p-value Q. Is he listed as one of the authors of your comparison test in the manuscript? 2 manuscript? A. I'm trying to look for it, if we did. It 3 A. No. 4 says -- oh, okay. No, I take that back, I'm sorry. I 5 Q. You don't know his last name? misspoke. Okay. So this -- this -- this date here 6 A. I can find out, but I don't know his last when we put it in the notebook, that's not when the 7 statistics were performed. I can't give you the exact name. Steven Kolisky or something. 8 Was the data sent to him in a blinded date when the statistics were performed. I have Q. 9 fashion? to go back. I'm sorry, I misspoke. I have to go back 10 A. This is how the data was sent to him. 10 and tell you exactly when we did the statistics. But You're pointing to pages 115 through 124? 11 here we describe the statistics that's done by this 11 Q. 115 -- yes, this is how -- this is how the 12 method from Steven. 12 A. 13 13 data were. What page are you pointing to? It's page seven. Yeah, this is done by 14 MS. O'DELL: And just to be clear, 14 what data are you referring to? What pages? statistician, so this is done by him. 15 15 16 THE WITNESS: The data from PCR data 16 Q. Right. The --17 115 and 116, and then ELISA data 117, 118. 17 The data was done by him. **DEPOSITION EXHIBIT 27** 18 Your statistical description in the 18 manuscript submitted to the Gynecologic -- the Journal Manuscript Submission to Journal of 19 19 of Gynecologic Oncology is the same as in your 20 Gynecologic Oncology 20 WAS MARKED BY THE REPORTER 21 manuscript? 21 22 FOR IDENTIFICATION 22 A. Correct. 23 BY MR. HEGARTY: 23 Q. So --Q. Doctor, we received as part of the That's the date where we entered it in the 24 24 A. 25 book. 25 materials produced to us last week what I'm marking as

Page 431	Page 433
	Objection to the form.
	S: Okay. If you read
3 A. Correct. I remember it now. 3 here, if you go to the Resu	
Q. What was the date the statistical analysis 4 manuscript, now, each e	
	n were and what the actual
6 p-value is for that compari	son.
7 Q. Is there any way 7 BY MR. HEGARTY:	
	OMSO selected as a dilutant
Q or how can you find out? 9 for tale? Why that particu	
	Object to the form.
	S: Yeah, the question is
12 Oncology submission, so it's definitely before that, 12 not clear. I don't understar	nd what you mean by
but I cannot remember the exact date. 13 BY MR. HEGARTY:	
	- were there alternatives
15 statistical analysis? 16 A. This is 15 to DMSO? 16 A. Were they to dis	golyo tolo?
	ssorve taic?
	he other papers where they
19 THE WITNESS: This is page 114.	
	ives, but we used this DMSO
	ve organic things, nonporous
22 BY MR. HEGARTY: 22 stuff.	ve organie timigs, nonporous
	ys rely on optical density
24 A. This was 24 measurements, correct?	y y
25 Q was added to the notebook? Was it added 25 A. Correct.	
Page 432	Page 434
1 on 10-6-18, or added at another time and dated 10-6-18? 1 Q. That includes PCF	and ELISA, correct?
MS. O'DELL: Object to the form. 2 A. ELISA you mean?	
THE WITNESS: I'm not sure when 3 Q. ELISA.	
4 we when we added this, but that was the last thing 4 A. I'm not sure about	PCR, what are you
5 we added, I think. 5 referring to, colorimetric?	
6 BY MR. HEGARTY: 6 Q. Well, do you unde	
7 Q. And how were the p-values determined? By 7 A. I'm confused now.	
	ther PCR testing relies on
9 A. It states very clearly here in the 9 optical density measureme	ents?
10 statistical section, if you read it. It's very 10 A. Absolutely not.	9
11 complicated statistical methods, because they are not 11 Q. How about ELISA 12 normally distributed, so they had to use this method 12 A. Correct, some of t	he ELISA are colorimetric,
12 normany distributed, so they had to use this method 12 A. Correct, some of t 13 to there are a lot of comparison to do that, 13 is that what you're asking?	
13 to there are a for of comparison to do that, 13 is that what you're asking a late of comparison between treated versus untreated, comparison 14 Q. Well, I'm talking a	
15 between different doses, comparison between normal 15 measurements.	oout optical density
16 versus cancer. It's a lot of that. 16 A. Yeah, it's coloring	etric.
	ole behind optical density
18 different samples are you doing the comparisons across? 18 assays; that is, what do the	
19 A. So all comparisons were statistically 19 A. They measure cha	
	inge in color mat sometimes
20 significant. We were particularly interested between 20 you cannot see if you add	
21 control and treatment. 21 Q. Don't they measur	
21 control and treatment. 22 Q. So it's your understanding that the p-values 21 Q. Don't they measur 22 to absorb or block light?	a substance to it. e the ability of the sample
21 control and treatment. 22 Q. So it's your understanding that the p-values 23 compared talc untreated compared the untreated 21 Q. Don't they measur 22 to absorb or block light? 23 A. They could. I don	a substance to it. e the ability of the sample
21 control and treatment. 22 Q. So it's your understanding that the p-values 23 compared talc untreated compared the untreated 24 controls to the treated controls? 21 Q. Don't they measur 22 to absorb or block light? 23 A. They could. I don 24 Q. Do they?	a substance to it. e the ability of the sample

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	Page 435		Page 437
1		1	
2	referring to in particular?	1	MR. HEGARTY: I withdrew the
3	Q. Well, we just agreed that do you know one way or the other whether any of the assays that you ran	2 3	question. MS. O'DELL: No. If he has started
4	rely on optical density measurements?	4	to answer the question that's on the table, he's
5	A. Yes.	5	entitled to finish his answer.
6	MS. O'DELL: Object to the form.	6	MR. HEGARTY: I don't agree with
7	THE WITNESS: We some of the	7	that.
8	assays that we did for ELISA or, for example, protein	8	MS. O'DELL: Otherwise, the record
9	assays to determine how much protein you have, it	9	is not clear, and the doctor's trying to explain his
10	depends on change in wavelength and change in color in	10	answer.
11	response to wavelength.	11	MR. HEGARTY: The record is clear.
12	BY MR. HEGARTY:	12	I withdrew the question.
13	Q. But they	13	MS. O'DELL: No. The record is
14	A. It's called colorimetric.	14	not
15	Q. But it also but it measures the ability	15	BY MR. HEGARTY:
16	of the sample to absorb or block light, right?	16	Q. Doctor, listen to my question.
17	MS. O'DELL: Object to the form.	17	MS. O'DELL: You may finish your
18	THE WITNESS: I'm not sure about	18	answer, Doctor. Please continue.
19	absorb light. I'm not sure about that. It changes	19	MR. HEGARTY: No, you may not finish
20	color based on the reaction. For example, with a	20	your answer, because there's no question pending.
21 22	protein assay, if you oxidize copper one to copper two, reduce it, that is accompanied by change in color. So	21 22	There's nothing to answer. MS. O'DELL: That is
23	the colorimetric assay at this specific wavelength will	23	MR. HEGARTY: I withdrew the
24	determine that. The change, the degree, how much color	24	question.
25	is changed, which is proportional to how much protein	25	MS. O'DELL: Well, the answer
	is changed, which is proportional to not much protein		MS. 6 BEEE. Wen, are answer
	Page 436		Page 438
1			
	vou have.	1	THE WITNESS: You asked me a
2	you have. BY MR. HEGARTY:	1 2	THE WITNESS: You asked me a question.
2 3		_	THE WITNESS: You asked me a question. MS. O'DELL: If the question
3 4	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect	2	question.
3	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results?	2 3	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering
3 4 5 6	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form.	2 3 4 5 6	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question.
3 4 5 6 7	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a	2 3 4 5 6 7	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me.
3 4 5 6 7 8	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here.	2 3 4 5 6 7 8	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him
3 4 5 6 7 8 9	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY:	2 3 4 5 6 7 8 9	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is
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3 4 5 6 7 8 9 10 11 12	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY: Q. Well, I'm not talking about MS. O'DELL: Excuse me. BY MR. HEGARTY:	2 3 4 5 6 7 8 9 10 11 12	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is struck, so it can't be used against him MR. HEGARTY: I agree. MS. O'DELL: if you're not going
3 4 5 6 7 8 9 10 11 12 13	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY: Q. Well, I'm not talking about MS. O'DELL: Excuse me. BY MR. HEGARTY: Q what you specifically	2 3 4 5 6 7 8 9 10 11 12 13	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is struck, so it can't be used against him MR. HEGARTY: I agree. MS. O'DELL: if you're not going to let him finish his answer.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY: Q. Well, I'm not talking about MS. O'DELL: Excuse me. BY MR. HEGARTY: Q what you specifically A. Let me finish, please. MS. O'DELL: No, no. Excuse me. MR. HEGARTY: I'll withdraw the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is struck, so it can't be used against him MR. HEGARTY: I agree. MS. O'DELL: if you're not going to let him finish his answer. MR. HEGARTY: I agree. BY MR. HEGARTY: Q. Let me ask a different question. Generally,
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY: Q. Well, I'm not talking about MS. O'DELL: Excuse me. BY MR. HEGARTY: Q what you specifically A. Let me finish, please. MS. O'DELL: No, no. Excuse me. MR. HEGARTY: I'll withdraw the question. MS. O'DELL: Let him finish his answer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is struck, so it can't be used against him MR. HEGARTY: I agree. MS. O'DELL: if you're not going to let him finish his answer. MR. HEGARTY: I agree. BY MR. HEGARTY: Q. Let me ask a different question. Generally, without regard to the tests that you ran, can the presence of particulate matter in solutions analyzed by optical density assays affect the results? MS. O'DELL: Object to the form of the question. Excuse me. This is also an area that
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY: Q. Well, I'm not talking about MS. O'DELL: Excuse me. BY MR. HEGARTY: Q what you specifically A. Let me finish, please. MS. O'DELL: No, no. Excuse me. MR. HEGARTY: I'll withdraw the question. MS. O'DELL: Let him finish his answer. MR. HEGARTY: I just withdrew the question. MS. O'DELL: No. He was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is struck, so it can't be used against him MR. HEGARTY: I agree. MS. O'DELL: if you're not going to let him finish his answer. MR. HEGARTY: I agree. BY MR. HEGARTY: Q. Let me ask a different question. Generally, without regard to the tests that you ran, can the presence of particulate matter in solutions analyzed by optical density assays affect the results? MS. O'DELL: Object to the form of the question. Excuse me. This is also an area that was covered last time, which representation by
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY: Q. Can the presence of particulate matter in the solution analyzed in these optical assays affect the results? MS. O'DELL: Object to the form. THE WITNESS: Again, there is a misunderstanding of what's going on here. BY MR. HEGARTY: Q. Well, I'm not talking about MS. O'DELL: Excuse me. BY MR. HEGARTY: Q what you specifically A. Let me finish, please. MS. O'DELL: No, no. Excuse me. MR. HEGARTY: I'll withdraw the question. MS. O'DELL: Let him finish his answer. MR. HEGARTY: I just withdrew the question. MS. O'DELL: No. He was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	question. MS. O'DELL: If the question is MR. HEGARTY: You are not answering my question. MS. O'DELL: Excuse me. Excuse me. Let him finish, but if you're not going to let him finish, the question is struck and the answer is struck, so it can't be used against him MR. HEGARTY: I agree. MS. O'DELL: if you're not going to let him finish his answer. MR. HEGARTY: I agree. BY MR. HEGARTY: Q. Let me ask a different question. Generally, without regard to the tests that you ran, can the presence of particulate matter in solutions analyzed by optical density assays affect the results? MS. O'DELL: Object to the form of the question. Excuse me. This is also an area that was covered last time, which representation by

	Page 439		Page 441
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	question, I'll let this question be answered, but we're not going to revisit every topic. MR. HEGARTY: That was not the representation MS. O'DELL: Yes, it was. MR. HEGARTY: and that was a different question, and we said that I'm not going to get into this debate because it's been debated again. If you want to instruct him not to answer it, you can do so at your peril. BY MR. HEGARTY: Q. Would you answer my question, please? MS. O'DELL: Yeah, don't don't don't say anything like that to me. If you understand the question, you may answer, Doctor. If you need the question repeated, we can do that. THE WITNESS: Okay. So just for the record, can you please repeat the question? BY MR. HEGARTY: Q. Generally, without regard to the testing that you ran, can the presence of particulate matter in solutions analyzed by optical density assays affect the results?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. How is that? MS. O'DELL: I'm sorry. THE WITNESS: The methodology MS. O'DELL: You did not let him finish, Mark. Please finish, sir. THE WITNESS: Okay. This is really easy. I can explain. This is very easy, Mark. The methodology that you use, you treat, you wash the cells, the cells are alive, you wash them, and then you lyse them, and then you extract proteins. Hopefully, the method that you extract proteins that you use does not bring anything else, because we have been establishing this from 1960. It only carries proteins, and you go through different phases of purification until you extract total proteins. And this is very standard method, and whatever you get there is only protein that comes from cells. BY MR. HEGARTY: Q. How are you able to rule out that talc particles did not enter the cell and were picked up until the lyse and the extraction of proteins? A. You have
25	MS. O'DELL: Objection to the form.	25	MS. O'DELL: Objection to form.
	Page 440		Page 442
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	You may answer any way you choose. You're not limited to not talking about your own data. THE WITNESS: The answer is I mean, there's no answer yes or no here. This is very complicated answer. You want me to explain, I can explain. There is no yes or no. The question is wrong. BY MR. HEGARTY: Q. Why is the question wrong? A. Because it doesn't work like that. Q. Okay. Tell me why it doesn't work like that. A. I'm tell you. I'll tell you. So when we when we measure colorimetric assay for proteins, these were proteins extracted from cells. They have no nothing from outside, no talc, no powders, nothing else. This is total protein extracted from lysate of cells, so whatever is in the cells can interfere with the assay, you can ask that question, that's fair, but outside, no, because there is no outside source. You know what I mean? Q. What did you do in your tests to insure that	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: That's why you have a control. We have a control, treated versus untreated, we extracted proteins from both cells, and then you only extract purified proteins. We have purified proteins there. We just determine we use the colorimetric assay, the BSA-based colorimetric assay to determine how much protein we have there so we can compare the same amount of protein between treated and untreated. That's the idea. BY MR. HEGARTY: Q. But how does comparing untreated to treated rule out that you didn't pick up talc particles that had entered the cell and were then extracted with the protein? MS. O'DELL: Object to the form. THE WITNESS: I already answered you. Do you want me to repeat it and waste your time? It's fine. It's up to you. I already told you, there is we extract the methodology that we use to extract to purify how about that purify proteins from cells,
23 24 25	through your test procedures you didn't carry along any talc particles? A. You can't carry talc particles because it	23 24 25	okay, is what you get there, your final product that you get is proteins. BY MR. HEGARTY:

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Page 443
                                                                                                                    Page 445
       O. Okay. If you turn to page 32 of your lab
                                                                   BY MR. HEGARTY:
 1
                                                                      Q. Well, you said you added DMSO to the
2
    notebook.
3
           I am not mad, I'm just -- sorry. Which
                                                                   controls that corresponded with the amount of talc in
4
    one?
                                                                   DMSO to the various cell lines, correct?
5
                MS. O'DELL: Exhibit 2.
                                                               5
                                                                               MS. O'DELL: Object to form.
                                                               6
                                                                              THE WITNESS: Okay, let me answer
6
    BY MR. HEGARTY:
7
                                                                   you. So you have, for example, EL1, which is
       Q. Page 32.
8
                                                                   macrophages, okay. You have one, two, three, four
            Okay.
       A.
9
                                                                   plates, cells. You call them plates, right. So plate
                MS. O'DELL: Exhibit 2.
10
                THE WITNESS: This one?
                                                              10
                                                                   one is untreated. You add -- we -- we make the
    BY MR. HEGARTY:
                                                              11
                                                                   concentrations 5, 10, 20, a hundred in a fixed volume
11
       Q. There's handwriting -- it's dated 2-1-2018,
                                                                   of DMSO. Let's say it's 50 microliters, okay.
12
                                                              12
                                                                              So we add 50 microliters of DMSO to
13
    correct?
                                                              13
                                                                   untreated, 50 microliters to -- that contain
14
       A. Yes.
                                                              14
                                                              15
15
       Q. There's a handwritten reference to UNT,
                                                                   5 micrograms to this one, 50 microliters DMSO that
                                                                   contains 20 micrograms to the next one, 50 microliters
16
    both -- and then there's is a typed UNT. What does UNT
                                                              16
17
                                                              17
                                                                   of DMSO that contains a hundred microgram of talc to
    mean?
                                                              18
                                                                   the next one. So they all have the same volume. But
18
       A. Untreated.
                                                              19
19
            Was there only one control for each cell
                                                                   one with -- without the powder, and one with the
       Q.
                                                                   various concentration of powder.
20
    type?
                                                              20
                                                                   BY MR. HEGARTY:
       A. One dish, yes.
                                                              21
21
22
       Q. So there could be only one volume of DMSO
                                                              22
                                                                      Q. I gotcha. Would you turn to page 67 of your
23
    added per cell line, correct?
                                                              23
                                                                   lab notebook, Exhibit 2? Are you there?
                MS. O'DELL: Objection to form.
24
                                                              24
                                                                      A. Yes.
                THE WITNESS: The question is not
25
                                                              25
                                                                      Q. You list there your calculations for CA-125,
                                                     Page 444
                                                                                                                    Page 446
    clear really.
                                                                   correct, in the table at the bottom?
                                                               2
    BY MR. HEGARTY:
                                                                      A. Yes.
       Q. Well, you had -- said you had one control
                                                               3
                                                                      Q. What test methods or what testing was done
    dish for each cell line tested, correct?
                                                                   to get those levels, get those values?
                                                                      A. I don't understand the question.
                                                                   Q. Well, what -- what tests -- what -- how do you test the -- the samples for CA-125? What is the --
       Q. And in that control dish, you would add an
6
                                                               6
    amount of DMSO, correct?
       A. Correct.
                                                               8
                                                                   what is the process for doing that, that generates
       O. So how much DMSO did you add to that one
                                                               9
                                                                   these numbers?
10
    control dish for each of the cell lines tested?
                                                              10
                                                                      A. ELISA.
       A. Okay.
                                                              11
                                                                      Q. And physically how does it -- how is it
11
12
               MS. O'DELL: Object to form.
                                                                   done? Do you put it in a machine and it generates
                                                              12
               THE WITNESS: So let me answer this.
13
                                                              13
                                                                   the -- the data?
    So we have DMSO alone, and DMSO dissolved in a DMSO
                                                                      A. Physically you -- you are provided with a
                                                              14
                                                                   standard curve, I mean CA-125 protein with different
    talc. So whatever treatment volume we use here, we use
                                                              15
16
    the same here. So if we used 50 microliters here to
                                                              16
                                                                   concentration, yes, and then you can use the different
17
    treat the cells from the treated, from the DMSO talc,
                                                              17
                                                                   concentration to create the standard curve, and then
    we used 50 microliters again for DMSO control. Same
                                                                   you can run the standard curve with your samples as
18
                                                              18
                                                              19
                                                                   indicated by the 96 full plate here, and then ELISA
19
    volume.
    BY MR. HEGARTY:
                                                              20
                                                                   read it, right, and then you get the results.
20
21
       O. So you had -- so you had three control
                                                                      Q. What is the date of the plate setup for this
                                                              21
    dishes so that you would have to control dish for each
                                                              22
                                                                   test? It says plate setup, but I don't see a date for
23
    dose of talc?
                                                              23
                                                                   it.
               MS. O'DELL: Object to the form.
                                                                      A. It's -- it is -- yes, I see the date. It's
24
                                                              24
25
               THE WITNESS: Three control dishes?
                                                                   right here. It says January 17. See it?
                                                              25
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Page 447 Page 449 Q. That is the date of the plate setup? dose only. 1 1 A. If it says inside here, yes. 2 2 BY MR. HEGARTY: 3 3 Q. What was the date that the test results were Q. For how long of exposure? That's -- here it says 48 hours, but it is generated? When were the samples tested? Is there a 4 5 5 72 hours. date next to --6 A. No, no. They're all together. You can't 6 Q. Where then is the data in your notebook 7 7 run standard and stop and leave and go home. They're showing treatment of the cells for the CA-125 test, and all run at the same time because you need to compare to 8 8 then 72 hours later you're running the test results? 9 9 a standard. A. I can't see it here. I cannot see it in my 10 Q. When were the cells treated for the CA-125 10 notebook. test? 11 11 Q. Okay. Let's --12 A. When were the cells treated for -- this 12 But I have some cells from January 10, CA-125 ELISA with the trial, for the trial from --13 is -- I think it's in the beginning of the ELISA. 13 So -- yes. So this -- I don't know when we treated Q. But for 72 hours, they would have been 14 treated 72 hours before January 17th, correct? 15 this. It must be the same date. I don't have a note 15 16 of that. 16 A. Yes, 72 hours it says. Q. Well, you report in your manuscript --What page are you pointing to? 17 17 Q. This is page 13. This is the trial 18 A. January 17. 18 A. -- that you tested for CA-125 up to experiment that we did. 19 19 Q. 20 72 hours --20 Q. Right now I'm talking about the -- not the 21 A. Yes. 21 trial experiment, the manuscript experiment. 22 Q. -- of exposure, correct? 22 A. They would have been done the same date 23 almost. This is January 10, that's January 17. So we 23 A. Yes. were treating the cells probably at the same time. I'm 24 Where is that reflected in your notebook? 24 not sure. It's not written here. 25 25 A. It's here. Page 448 Page 450 Q. You do agree that you would have had to MS. O'DELL: What page are you 1 treat the cells three days before January 17th, referring to? 2 2 3 3 BY MR. HEGARTY: correct? 4 Q. Yeah, what page are you referring to? 4 A. Correct. So this is why the trial 5 A. January -- 63. Where is the cell treatment 5 experiment started on January 10th. for this. Yeah. I only have the date for the assay on Q. You can't find in the notebook on --6 6 7 here. But the treatment, these are the 12, 12 plus notebook Exhibit Number 2, treatment for the CA-125 7 100. Let me check the manuscript which one we did 8 test on January 14th, 2018? 8 9 9 MS. O'DELL: Object to the form. here. CA-125. Let's see. So for this one, we used a hundred microgram per mil, one dose to do the assay. 10 10 THE WITNESS: I only -- I found And in your manuscript you say activity the trial experiment that I did, which is dated 11 11 assay was utilized to determine apoptosis of all cell 12 12 January 10. 13 BY MR. HEGARTY: 13 lines -- I'm sorry, that's apoptosis. Let me back up Q. That couldn't be the same cell line, right? 14 to --14 15 A. If you go to here, you can see the -- the 15 A. I'm not sure. 16 legend. If you go to legend for CA-125, and it tells 16 Q. If you go to your -- your page 50 in your you that we used a hundred micrograms per mil dose, and 17 notebook, please. 17 in this time, we only did one dose, the highest dose. A. Okay. That's 33? 18 18 19 Q. I'm sorry. Go to page 49 of your notebook. 19 MS. O'DELL: What -- what figure are 20 A. 49, which is GPX. 20 you referring to? Q. Correct. If you would look at sample ID 21 THE WITNESS: It is figure four 21 legend. It says increase CA-125, and this one is 22 22 358. Do you see that sample ID to the left? about treatment, and these are the cell lines that we 23 A. 358, macrophages, 20 micrograms per mil. 23 24 used, they are here, and the table, and this is Q. And if you go over to the normalized data to 24 the far right, do you see that normalized data of 2.17, 25 referred to a hundred micrograms per mil. It's one

	Page 451		Page 453
1	2.46 and 2.39?	1	A. Yes.
2	A. Yes.	2	Q. You go over and you see the 9.98 number, the
3	Q. And do you see the average of 2.47?	3	11.63 number and 10.50 number?
4	A. Yes.	4	A. Yes.
5	Q. How can you have an average of 2.47 when	5	Q. When I took added those numbers and
6	none of the normalized data is above 2.46?	6	divided by three, I got 10.7 instead of 11.07. Do you
7	A. 2 point hold on one second. 2.17, 2.46,	7	know why that is the case?
8	2 point actually, it would be lower. That's even	8	MS. O'DELL: Object to the form.
9	better.	9	THE WITNESS: What did you get?
10	Q. That's not my question, Doctor.	10	BY MR. HEGARTY:
11	A. I know. I understand. I'm just looking why	11	Q. Well, if you add those three numbers and you
12	we probably this happened. The answer is, probably	12	divide by three, you get 10.7, not 11.07, and my
13	it's a typo, it's a mistake. But if you add it, then	13	question to you is, do you know why that's the case?
14	you will get a lower value.	14	A. Can I add them?
15	Q. Understood. But if you when I did the	15	Q. Yes.
16	average, I came up with 2.34.	16	MS. O'DELL: Do you need a piece of
17	A. Yes.	17	paper?
18	Q. Why is this reporting 2.47?	18	BY MR. HEGARTY:
19	A. These are formulas already linked to the	19	Q. Do you have a
20	each section, so maybe sometimes by mistake you you	20	A. Yeah.
21	link to the wrong cell number.	21	Q phone?
22	Q. Can you explain why the number is wrong?	22	A. Yeah. 9.98 plus 10.7. This is 11.07. I
23	MS. O'DELL: Object to the form.	23	don't know. It's a very small difference, nothing
24	THE WITNESS: I can't explain. Just	24	significant.
25	a mistake.	25	Q. Would you turn over to page 105 of your
	Page 452		Page 454
1	BY MR. HEGARTY:	1	notebook, please?
2	Q. If you go over to	2	A. 105.
3	A. If the for the record, if they were	3	Q. In the chart on that page, you list the
4	averaged correctly, you will get the lower number	4	results for the HOSEpic control and for talc, correct?
5	Q. If you would	5	MS. O'DELL: What page are you on?
6	A which is which is better.	6	BY MR. HEGARTY:
7	Q. When you say better, better in what way?	7	Q. That cell line?
9	A. I mean it's more consistent with the with	8 9	A. H
10	the data. Q. Go over to page 61, please.	10	Q. H-O-S-E A. HOSEpic, yeah.
11	A. ELISA?	11	Q. HOSEpic?
12	Q. It's just a table of data.	12	A. Um-hum.
13	A. This? 61? Yes.	13	Q. For the control and for tale, the results
14	Q. Okay.	14	are listed, correct?
15	A. Let me see what's this first.	15	MS. O'DELL: I'm sorry, what page
16	Q. It should be a table dated January 11, 2018.	16	are you on?
17	A. This is for catalase.	17	THE WITNESS: I don't understand
18	Q. Okay.	18	what you're saying.
19	A. January 11?	19	BY MR. HEGARTY:
20	Q. Yes.	20	Q. Well, you list results for the cell line
21	A. Yes, I got that.	21	HOSEpic control and talc, correct?
22	Q. If you look at the very first line over	22	A. Correct.
23	A2780 dash C, do you see that line?	23	MS. O'DELL: You're on page 105?
24	A. Um-hum.	24	THE WITNESS: 105?
25	Q. Yes?	25	MS. O'DELL: Give me just a moment,

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 'cause I don't think I'm on the same page. This is what I have for what page are the Bates number, Mark, just to make sure? MR. HEGARTY: 85. He's working off the other number. MS. O'DELL: I know that. But I'm just trying to make sure THE WITNESS: 105. Thank you for your help. BY MR. HEGARTY: Q. In your manuscript, you don't report the results for the HOSEpic cell line. Why is that? A. Because this is a normal ovarian, epithelial ovarian, and we already did another normal epithelial ovarian, so and we had the same results. The HOSEpic is normal. Q. Would you go a couple pages over to 107, please? A. MTT? Q. MTT Cell Proliferation. A. Um-hum. Q. Do you see that page? A. I do. Q. In the table above the graph, it says 	Q. Well, 9-6. A. 9-6? Q. Do you see where it says, the first line 4 after 9-6, after 24 hours treatment? A. Um-hum. Q. Yes? A. Yes. Q. And turn to the next page, the raw data is 9 reported on 9-6-2018; is that correct? A. Yes. Q. In your manuscript, though, you report cell proliferation data for 72 hours. So here you're seeding cells on 9-4, and then you're taking tests 4 after 24 hours. Where does the 72 hours come from? Where did the 72 hours come from? A. So 9-4, treat cells with talc. 9-5, 9-6 is Yes. It's over on this one is 24 hours only. What does it say here? Q. Well A. I want to see it. Q. Yes. It's over on if you look at page six, you report cell proliferation and apoptosis using MTT cell proliferation assays with talc, 100 micrograms per milliliter for 72 hours. A. Yes, this is this is 24 hours.
the percentage of cell proliferation above the baseline is the cells that proliferated, here is the toxicity, the cells that died. So it's two different ways of interpreting it. Q. Go back one page to 106, please. A. 106. Q. At the top it says, MTT Cell Proliferation Assay, correct? A. Correct. Q. You report on that page the seeding of cells on 9-4-2018, correct? A. Correct. Q. And then below on 9-6-28 (sic) it says after 24 hours treatment, correct?	Q. But you that same table I'm sorry, the same graph you have there is the same graph you have in your manuscript. A. Yes. Q. So where is this data for 72 hours? A. There is no data. This is the data. It's 24 hours. Q. So why did you report in your manuscript that it's for 72 hours? A. It's a typo, a mistake. Because we've done everything else is 72 hours, that's why. Q. So it's your testimony that in your manuscripts where you report cell proliferation from 100 micrograms per milliliter of talc for 72 hours, that should be 24 hours? A. What we did here is clearly explained in the notebook. It says when we seeded the cells and when we treated the cells and when we did the assay, and that's 24 hours. It says after 24 hours treatment. Q. Understood. Why does your manuscript say 72 hours? A. It's a mistake. I told you, okay. But it says clearly in my notebook, it says after 24 hours of treatment, and this is the dose, 100 microgram per mil of talc.

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	Page 459		Page 461
1	Q. Do you intend to correct that mistake,	1	directly, correct?
2	Doctor?	2	A. I don't understand your question.
3	A. Of course. But this this manuscript is	3	Q. Well, it's not a direct measure of cell
4	not rejected.	4	proliferation, is it?
5	Q. I understand that. But the manuscript has	5	MS. O'DELL: Object to form.
6	been accepted with you reporting your data for cell	6	THE WITNESS: I don't understand
7	proliferation for 72 hours, correct?	7	your question.
8	A. This is a normal practice. When we get the	8	BY MR. HEGARTY:
9	proof, we go over the manuscript, we make sure	9	Q. What don't you understand?
10	everything is correct, and we we edit it. It's not	10	A. The question is scientifically wrong.
11	the first time. It's very basic.	11	Q. Why is it scientifically wrong?
12	Q. Did you find this mistake before right now?	12	A. What you mean by direct?
13	A. The 24 hours?	13	Q. Well, it's an indirect measure of cell
14	Q. Yes.	14	proliferation?
15	A. I'm sure we will find it when we read it.	15	A. I'm asking you, what do you mean by you
16 17	Q. That's not my question. My question is, is	16 17	said you asked me if it's direct measurement, right? Q. You're not
18	this the first time you're appreciating that you made a mistake in your manuscript, that it should be 24 hours	18	A. I'm asking you, what do you mean by direct?
19	instead of 72 hours?	19	Q. You're not counting the number of cells that
20	A. I answered.	20	are proliferating?
21	Q. What's your answer?	21	A. Of course you are.
22	A. I would have picked it up on the reproof.	22	MS. O'DELL: Excuse me. Object to
23	Q. Had you picked it up before right now?	23	the form.
24	A. I didn't get the reproof yet.	24	BY MR. HEGARTY:
25	Q. But had you picked up the error before right	25	Q. In what way?
	Page 460		Page 462
1	this moment?	1	MS. O'DELL: Object to the form.
2	A. You want me to say something? Okay. I	2	THE WITNESS: Okay. The okay.
3	already said, when I get the proof this is a	3	So the basis of the of the MTT that cells that
4	mechanism in our lab. When I read the proof, we sit	4	absorb the dye are the cells that are proliferating,
5	down, and we make sure that everything is accurate	5	and cells that do not absorb the dye, cells are dying,
6	according to our notebook, what we did, and then we	6	so you can take that, it's a direct measure of
7	have the opportunity to fix it.	7	proliferation.
8	Q. Had you	8	BY MR. HEGARTY:
9	A. I have not got the proof yet, so I will look	9	Q. And how do you count the cells?
10	for it, and when it comes, I will fix whatever needs to	10	A. The dye, the ELISA. You do the
11	be fixed.	11	measurements, you do the quantitation, how much dye was
12 13	Q. But were you aware of this mistake before right now?	12 13	absorbed for cells. So when you say direct, that's one of the best techniques that we have. And by the way,
14	A. I didn't look specifically for this one.	14	this is very standard technique to measure cell
15	Q. When you say the proof, you're talking about	15	proliferation.
16	the proof from the publisher?	16	Q. Go over, please, to what would be page 104
17	A. Yes, the proof.	17	of your notebook, Exhibit 2, 104. It should look like
18	Q. You don't you don't do that comparison	18	this.
19	before you send it to the publisher?	19	A. Yes.
20	MS. O'DELL: Object to the form.	20	Q. These are the
21	THE WITNESS: We do, we do, but	21	A. SNPs.
22	sometimes with too many data, too much information, you	22	Q. The talc matter results?
23	know, you do mistakes.	23	A. Correct, the SNP analysis.
24	BY MR. HEGARTY:	24	Q. These show color dots that are very close
25	Q. Now, MTT doesn't measure cell proliferation	25	together, correct?
		l	

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	Page 463		Page 465
1	A. Yes.	1	Q. Have you ever done in any strike that.
2	Q. Who read the charts and recorded the data?	2	Have you ever done any tests to look for neoplastic
3	A. I need to explain this.	3	changes in cells directly?
4	Q. Okay.	4	A. No.
5	A. So this is done by a Core Facility at	5	Q. Have you ever taken results like you
6	Wayne State University. We sent them the DNA from the	6	had with your tests and applied them in an invitro
7	treated cells, and they run the SNP assay, and they	7	model?
8	give us the data exactly as you see it here.	8	A. I'm sorry?
9	Q. Do you know how they generate that data?	9	MS. O'DELL: Object to the form.
10	A. I don't.	10	THE WITNESS: I'm not clear.
11 12	Q. Do you know who generated the data, who at	11 12	BY MR. HEGARTY:
13	Core? A. By name?	13	Q. Have you ever taken results of any testing you've done like this and taken them and applied them
14	Q. Yes.	14	in an animal model?
15	A. No. We submit it online. There's a	15	MS. O'DELL: Object to the form.
16	form that you fill out, and which it goes to	16	THE WITNESS: Can you explain what
17	them, and you send them the samples. I can't remember	17	"like this" means? Like transformed?
18	names.	18	BY MR. HEGARTY:
19	Q. Do you know what the two colored dots	19	Q. Well, the tests that you did for your
20	represent?	20	manuscript, have you ever done tests like those and
21	A. I'm not sure, but probably for alleles,	21	applied those in an invivo model?
22	different alleles.	22	A. What tests?
23	Q. Well, you have green dots and you have red	23	MS. O'DELL: Object to form.
24	dots. What do those mean?	24 25	THE WITNESS: What tests you're
25	A. Alleles, C versus T, A versus G. I'm not	23	talking about?
	Page 464		Page 466
1	sure exactly how they	1	BY MR. HEGARTY:
2	Q. None of your tests showed development of	2	Q. The tests in your manuscript, the tests in
3	neoplastic cells, correct?	3	your notebook.
4	A. Proliferation does.Q. Are you equating cell proliferation with		
5	O. Are you equating cell proliferation with	4	A. I have done one million tests. Which one?
		5	Q. Any one. Have you ever applied in any in
6	neoplastic development?	5 6	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work
7	neoplastic development? A. It's an indirect	5 6 7	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work and applied it in an invivo model?
	neoplastic development?	5 6	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work
7 8	neoplastic development? A. It's an indirect MS. O'DELL: Object to form.	5 6 7 8	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work and applied it in an invivo model? MS. O'DELL: Object to the form.
7 8 9	neoplastic development? A. It's an indirect MS. O'DELL: Object to form. THE WITNESS: It's an indirect	5 6 7 8 9	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work and applied it in an invivo model? MS. O'DELL: Object to the form. THE WITNESS: Not related to this
7 8 9 10 11 12	neoplastic development? A. It's an indirect MS. O'DELL: Object to form. THE WITNESS: It's an indirect proliferation. It is an indirect measure of of the beginning of a transformation. BY MR. HEGARTY:	5 6 7 8 9 10 11 12	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work and applied it in an invivo model? MS. O'DELL: Object to the form. THE WITNESS: Not related to this project? BY MR. HEGARTY: Q. Yes, in any sense.
7 8 9 10 11 12 13	neoplastic development? A. It's an indirect MS. O'DELL: Object to form. THE WITNESS: It's an indirect proliferation. It is an indirect measure of of the beginning of a transformation. BY MR. HEGARTY: Q. Well, you showed no transformation of normal	5 6 7 8 9 10 11 12 13	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work and applied it in an invivo model? MS. O'DELL: Object to the form. THE WITNESS: Not related to this project? BY MR. HEGARTY: Q. Yes, in any sense. A. I don't remember. I really didn't
7 8 9 10 11 12 13 14	neoplastic development? A. It's an indirect MS. O'DELL: Object to form. THE WITNESS: It's an indirect proliferation. It is an indirect measure of of the beginning of a transformation. BY MR. HEGARTY: Q. Well, you showed no transformation of normal ovarian cells to cancerous cells, correct?	5 6 7 8 9 10 11 12 13 14	Q. Any one. Have you ever applied in any in any of your work, have you ever taken any of your work and applied it in an invivo model? MS. O'DELL: Object to the form. THE WITNESS: Not related to this project? BY MR. HEGARTY: Q. Yes, in any sense. A. I don't remember. I really didn't understand the question, to be honest with you.
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	Page 467		Page 469
1	each other.	1	ratio.
2	BY MR. HEGARTY:	2	Q. What's the normal ratio for 260 to 280?
3	Q. You can treat cells and then inject those	3	A. Around 2.
4	cells into an animal model, correct?	4	Q. When you say around 2, what is the range?
5	A. What do you mean by animal model?	5	A. 1.7, 1.8, 1.9, 2.
6	Q. Like a rat or a mouse?	6	Q. How about strike that. Many are above
7	A. Why would you do that?	7	that range. You have numbers is at 2.31, 2.25, 2.24.
8	Q. To do an invivo test for your results?	8	Do you see that?
9	A. That's the wrong way to do invivo test.	9	A. Ido.
10	Q. How do you do an invivo test?	10	Q. Could that indicate could those values
11	A. You create from invivo from within, not	11	indicate the presence of contaminants?
12 13	inject the cells. Q. Okay. Have you ever taken cells that you	12 13	A. No. Q. Why not?
14	created	14	A. This is just indicate the the percentage
15	A. I didn't you don't take cells for invivo.	15	of degradation of RNA. Nothing to do with
16	You create the environment invivo for the animal and	16	contamination. The quality of the RNA and whether
17	watch for the response of the animal.	17	there is DNA in there.
18	Q. Have you ever done that?	18	Q. If you look back at Exhibit 26, that's the
19	A. No.	19	abstract that we marked F dash 098.
20	MR. HEGARTY: Okay. We need to	20	A. Um-hum.
21	change tapes. Let's go off the record.	21	Q. I'm sorry.
22	THE VIDEOGRAPHER: We're going to go	22	MS. O'DELL: Exhibit 26?
23	off the record. The time is now 11:09.	23	BY MR. HEGARTY:
24	(There was a recess taken.)	24	Q. I'm sorry. We're looking at
25	THE VIDEOGRAPHER: We're back on the	25	A. The manuscript?
	Page 468		Page 470
1	Page 468 record, the time is 11:19.	1	Page 470 Q. Just a second. We're looking I think I
2	record, the time is 11:19. BY MR. HEGARTY:	2	Q. Just a second. We're looking I think I gave you the SRI previously, the SRI abstract. You
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Ghassan Saed, Ph.D.

Page 471 Page 473 that linked genital use of talcum powder to increased MR. LAPINSKI: Miss Court Reporter, could you repeat the question back, please? risk of epithelial ovarian cancer? 2 3 3 MR. HEGARTY: Let me -- let me A. So when a substance induces CA-125, CA-125 4 restate it. is a marker for inflammation. If a substance is able 5 BY MR. HEGARTY: 5 to induce a marker of inflammation, and we know that inflammation in this specific marker is a marker for 6 Q. Doctor, in the Method section for this 6 7 7 ovarian cancer, then we conclude that it is a molecular abstract, you report on treating primary normal epithelial cells with or without a thousand micrograms 8 basis to that. per milliliter of talc for 72 hours. Is that what you 9 Q. Can you cite for me any studies correlating 10 did? 10 elevations in CA-125 levels in patients who do not have MS. O'DELL: Object to the form. 11 ovarian cancer to ovarian cancer risk? 11 THE WITNESS: Yes. MS. O'DELL: Object to the form. 12 12 THE WITNESS: Say that again, BY MR. HEGARTY: 13 13 Q. Where is the data that you reported treating 14 14 please. BY MR. HEGARTY: for a thousand micrograms per milliliter of talc for 15 15 16 72 hours for the CA-125 test? 16 Q. Sure. Can you cite for me any published A. Page 12 and 13. 17 studies correlating elevations in CA-125 levels in 17 Q. Of which book? women who do not have ovarian cancer to ovarian 18 18 A. Two. 19 cancer -- to risk of ovarian cancer? 19 MS. O'DELL: Object to the form. 20 MS. O'DELL: And that's 20 Exhibit 24. Excuse me. I apologize. It's not 21 21 BY MR. HEGARTY: 22 Exhibit 24. It's --22 Q. In other words, showing an association 23 BY MR. HEGARTY: 23 between elevated CA-125 levels and the risk of ovarian Q. Can you show me that page, please? 24 24 cancer? A. (The witness complies). 25 25 A. Yeah, yeah. Page 472 Page 474 MS. O'DELL: It's Exhibit 25 -- 3. 1 MS. O'DELL: Object to the form. THE WITNESS: I'm not -- I'm not --2 2 excuse me. 3 this is not my specialty. I would defer this to an 3 THE WITNESS: Thank you. 4 BY MR. HEGARTY: 4 OB/GYN oncologist. But what I know, my interest here, 5 Q. You report that you used talc from 5 anything that induces inflammation is what I'm Sigma-Aldrich; is that correct? interested in. In my mind, anything that induces 6 6 7 inflammation is associated with increased risk based on A. No. 7 the data that we've shown. 8 Q. Where did your talc come from? 8 A. Fisher. This is Fisher. Sigma-Aldrich is 9 9 BY MR. HEGARTY: 10 from the south cell line. 10 Q. Can you cite for me any published studies O. So that's a mistake, correct? 11 correlating increased levels of CA-125 with ovarian 11 MS. O'DELL: Object to the form. cancer risk? 12 12 BY MR. HEGARTY: 13 13 MS. O'DELL: Objection, asked and Q. Is it a mistake? 14 14 answered. A. I think this was trying to refer to ATCC THE WITNESS: It is correlated 15 15 16 cells, where we got them from, the cell lines that we 16 with -- with inflammation, it's correlated with the 17 pathogenesis of ovarian cancer. used. 17 Q. In the Conclusion section, you say that this BY MR. HEGARTY: 18 18 will provide a molecular basis to previous reports that 19 Q. Can you cite for me any studies that say 19 linked genital use of talcum powder to increased risk 20 20 that? of epithelial ovarian cancer. Do you see where I'm 21 21 A. Pathogenesis? 22 reading? 22 No, that it's correlated with inflammation? A. Yes. 23 23 MS. O'DELL: Object to form. THE WITNESS: I'm talking about 24 Q. How will those results -- or how did those 24 results provide a molecular basis to previous reports 25 inflammation --

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1	BY MR. HEGARTY:	1	Q. Fair point. Did you include a conflict of
2	Q. Correct.	2	interest disclosure with this abstract?
3	A not CA-125. As I told you, CA-125 I'm	3	A. This is SRI?
4	not an expert in. This for a I defer this to an	4	Q. Correct.
5	oncologist OB/GYN oncologist. But what I'm saying	5	A. They do not require that.
6	is very clear. Anything that induces inflammation, and	6	Q. I'm sorry. This is Reproductive Sciences.
7	specifically inflammation that is linked to pathogens	7	A. SRI.
8	is ovarian cancer.	8	DEPOSITION EXHIBIT 28
9	Q. For this abstract, did you include any	9	Correspondence From the FTO
10	conflict of interest disclosure?	10	WAS MARKED BY THE REPORTER
11	A. What abstract is this?	11	FOR IDENTIFICATION
12	Q. The abstract Number 25, Exhibit Number 25.	12	BY MR. HEGARTY:
13	A. You don't need to include any conflict of	13	Q. I'm going to next mark as Exhibit 28
14	interest for any SRI abstract.	14	correspondence from the FTO regarding the 50th Annual
15	Q. Okay. Next, would you find Exhibit 26,	15	Meeting on Women's Cancer in March 2019. Do you see
16 17	which we previously marked as which is the F-098 abstract? It was previously marked as 26.	16 17	that? A. This is this is the the poster work we
18	A. I don't have it.	18	A. This is this is the the poster work we are going to present in Honolulu, yes.
19	Q. I just saw it there I think.	19	MS. O'DELL: I think you said 2019.
20	A. Where?	20	THE WITNESS: Yeah.
21	Q. Right there.	21	MS. O'DELL: But I want to be clear
22	A. Sorry.	22	on what the question is.
23	Q. In the Method section of that abstract, you	23	BY MR. HEGARTY:
24	again report using talc from Sigma-Aldrich; is that	24	Q. Have you prepared that poster?
25	correct?	25	A. It's a March 16, 2019.
-			
	Page 476		Page 478
1	A. Again	1	Q. Right. Have you prepared that poster?
2	MS. O'DELL: Object to form.	2	A. Yes.
3	THE WITNESS: this refers to the	3	Q. Do you have a copy of it?
4	cell lines. The talc we used for this abstract was	4	A. No.
5	from Fisher.	5	Q. Well, I asked you if you prepared it, and
6	BY MR. HEGARTY:	6	you said yes.
7	Q. There's a reference from using a cell line	7	A. Yeah, Amy prepared it, Dr. Harper.
9	MDAH dash 2774. Do you see that? A. Using MDAH-2774.	8 9	Q. Did did Amy prepare a poster for this meeting?
10	Q. Yes.	10	A. I said yes.
11	A. Yes.	11	Q. And do you have a copy of it in your office?
12	Q. Why did you not use that cell line for your	12	A. Here now?
		13	Q. Here now.
	manuscribt?		
13	manuscript? A. Which one we used for the manuscript, let me		A. Here now, no.
	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not	14 15	A. Here now, no.Q. Do you have a copy in your office?
13 14	A. Which one we used for the manuscript, let me	14	
13 14 15	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not	14 15	Q. Do you have a copy in your office?
13 14 15 16 17 18	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest	14 15 16 17 18	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not
13 14 15 16 17 18 19	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest disclosure with this manuscript, F dash 098?	14 15 16 17 18 19	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not complete yet.
13 14 15 16 17 18 19 20	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest disclosure with this manuscript, F dash 098? MS. O'DELL: Object to form.	14 15 16 17 18 19 20	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not complete yet. Q. This presentation is for your manuscript; is
13 14 15 16 17 18 19 20 21	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest disclosure with this manuscript, F dash 098? MS. O'DELL: Object to form. THE WITNESS: That's not a	14 15 16 17 18 19 20 21	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not complete yet. Q. This presentation is for your manuscript; is that correct?
13 14 15 16 17 18 19 20 21 22	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest disclosure with this manuscript, F dash 098? MS. O'DELL: Object to form. THE WITNESS: That's not a manuscript.	14 15 16 17 18 19 20 21 22	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not complete yet. Q. This presentation is for your manuscript; is that correct? MS. O'DELL: Object to the form.
13 14 15 16 17 18 19 20 21 22 23	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest disclosure with this manuscript, F dash 098? MS. O'DELL: Object to form. THE WITNESS: That's not a manuscript. BY MR. HEGARTY:	14 15 16 17 18 19 20 21 22 23	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not complete yet. Q. This presentation is for your manuscript; is that correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct.
13 14 15 16 17 18 19 20 21 22	A. Which one we used for the manuscript, let me see. Oh, we used A2780 instead. I think that was not available when we did the manuscript. This is 2017 work. Q. Did you include a a conflict of interest disclosure with this manuscript, F dash 098? MS. O'DELL: Object to form. THE WITNESS: That's not a manuscript.	14 15 16 17 18 19 20 21 22	 Q. Do you have a copy in your office? A. Do I have a copy in my office? Yes. Q. This presentation is to be about A. It's not for the record, the copy is not complete yet. Q. This presentation is for your manuscript; is that correct? MS. O'DELL: Object to the form.

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	Page 479		Page 481
1	A. It's this is only for the if I	1	says regarding your inquiry?
2	remember correctly, this is only for the the SNP	2	A. Correct. I picked up the phone and I called
3	analysis.	3	her to confirm it.
4	Q. The SNP analysis that's reported in your	4	DEPOSITION EXHIBIT 30
5	manuscript?	5	Correspondence Regarding the 50th
6	A. Correct. Part of the manuscript.	6	Annual SGO Meeting
7	Q. And Dr. Harper is planning to present at	7	WAS MARKED BY THE REPORTER
8	this meeting?	8	FOR IDENTIFICATION
9	A. Correct.	9	BY MR. HEGARTY:
10	DEPOSITION EXHIBIT 29	10	Q. I'm next marking as Exhibit 30
11	Correspondence Regarding SGO Meeting	11	A. I'm sorry.
12	WAS MARKED BY THE REPORTER	12	Q further correspondence regarding the
13	FOR IDENTIFICATION	13	50th Annual HGO meeting SGO meeting. Do you see
14	BY MR. HEGARTY:	14	that, Doctor?
15	Q. I'm going to next mark as Exhibit 29 another	15	A. Yes. That's to Amy, yes.
16	document we've been provided, which is correspondence	16	Q. This correspondence dates back to
17	regarding the same SGO meeting; is that correct?	17	September 12th, 2018, correct?
18	A. For submission for the abstract, yes.	18	A. It says so, yes.
19	Q. This is an e-mail from Lynette Kelley dated	19	Q. Are you a member of SGO?
20	January 29, 2019?	20	A. Yes.
21	A. Correct.	21	DEPOSITION EXHIBIT 31
22	Q. This e-mail refers to your inquiry	22	Correspondence to Ms. Thompson at
23	on the completed disclosure. Do you see that first	23	Beasley Allen Regarding an SGO Abstract
24	line?	24	WAS MARKED BY THE REPORTER
25	A. I do.	25	FOR IDENTIFICATION
	Page 480		Page 482
1	Q. Where is the disclosure that you provided?	1	BY MR. HEGARTY:
2	A. Where is the disclosure?	2	Q. I've next marked as Exhibit 31
3	Q. Well, this indicates you provided to SGO a	3	correspondence from you to Ms. Thompson at
4	disclosure; is that correct?	4	Beasley Allen regarding an SGO abstract, correct?
5	A. It is online.	5	A. What is this?
6	Q. The e-mail says, notes since you have no	6	Q. At the very top it says, Subject, SGO
7	financial ties with the commercial entity, there is	7	Abstract.
8	nothing for you to disclose. Do you see where I'm	8	A. SGO Abstract. I see it written, but
9	reading?	9	I'm trying to remember what which one is
10	A. I do.	10	this.
11	Q. Do you know what she means by that	11	Q. Well, is this the abstract for the SGO
12	statement?	12	meeting?
13	A. Yes. Because in the disclosure form it says	13	A. Is it? I don't know. I can't remember.
14	if you have a conflict of interest, yes or no, and it	14	Let's see. Do you have the abstract for the SGO
15	indicates specifically that that what they like to	15	meeting?
16	see in the conflict of interest is a commercial	16	Q. This is all we have, Doctor.
17	financial interest from commercial companies that they	17	A. We have an abstract. This is missing. Do
18	are working with you to develop drugs or to develop	18	we oh, oh, sorry. It's right here. Okay. What
19	products. I told them about Beasley Allen	19	about this?
20	specifically, and they said no, you don't have to,	20	Q. Why did you communicate with Ms. Thompson
21	that's not a conflict of interest.	21	regarding this abstract?
		22	A. Why not? I work for them. They they pay
22	Q. When you when you say you told them, you		
22 23	talked about you told Lynette Kelly?	23	for my time.
22	- •		

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Page 483 Page 485 THE WITNESS: What's wrong? March 2019, correct? 1 MS. O'DELL: Object to any inquiry 2 2 A. Correct. 3 that relates to communications with counsel, so I Q. For what study does this relate to? instruct you not to divulge communications with 4 A. This -- this particular one, Talcum Powder 5 5 Enhances Key Mechanism of Ovarian Cancer, Development counsel. 6 and Progression. 6 MR. LAPINSKI: Let me see that. 7 BY MR. HEGARTY: 7 O. Is this the same subject as your 8 manuscript? 8 Q. At the very end of the abstract, 9 9 A. Part of it, yes. Doctor --10 A. Here? 10 Q. Has this been accepted? 11 Yes, and I'm going to present it. 11 O. -- Exhibit 31, where it talks about the Q. Has there been any further communication first presenting author, it says, will not be 12 12 with this group about this presentation, beyond what we published. What does that mean? 13 13 look at here? 14 A. I don't know. 14 This group who? SRI? 15 Q. Okay. You do intend to publish part of this 15 A. 16 data, correct? 16 Q. The SRI? A. This is already accepted and published. 17 No. We just get an acceptance letter. 17 A. Q. So why is she saying that --Have you prepared the abstract yet? 18 18 Q. A. Who is "she"? I don't know where this is Not yet. You mean the poster? 19 19 A. 20 Well, the poster or the abstract? 20 coming from. Q. 21 That's already been submitted. 21 Q. Let me finish my question. Why does it say A. 22 will not be published? 22 O. Do you have a copy of the abstract? 23 A. Hold on one second. Abstract -- this is 23 You should have it somewhere. It's an A. from me -- I have no idea why it says that, because we 24 24 abstract. submitted it and it's accepted. It's published. When 25 25 Q. Well, I don't think we do, but you think Page 484 Page 486 it's accepted, it's published. there is a copy of the abstract? Q. Dr. Harper is a fellow; is that correct? A. What we submitted to SRI, I think you should 2 2 A. Oh, now I remember. Yes, yes. 3 3 have a copy. You should have a copy, yeah. But it's 4 Q. Okay. You said you remember? 4 accepted. 5 A. Yeah, yeah. You know where they -- I think, 5 Q. Next I want to ask you about this -- this I'm not quite sure, but I think when they have the document we initially -- we already marked, which is 6 6 7 e-mail where they say confidential, whatever, whatever, 7 the submission of a manuscript to Gynecologic Oncology. I think that's part of it. 8 Can you find that, please? 8 9 9 You know, some e-mails they have MS. O'DELL: Exhibit 27? 10 everything in this e-mail is confidential, and it's 10 MR. HEGARTY: Exhibit 27. like -- it reads like that, but maybe this is part of 11 THE WITNESS: Okay. 11 it. I don't know what the answer is. But it is going 12 12 BY MR. HEGARTY: to be published. It is already accepted, and it's 13 13 Q. This submission includes at the bottom, going to be presented. suggested reviewers. Do you see that? 14 14 **DEPOSITION EXHIBIT 32** A. Yes. 15 15 16 Abstract Submission to the 66th Annual 16 Q. Were -- are these reviewers you suggested? 17 Scientific Meeting For the Society of 17 A. Yes. They ask you to. Q. Have you communicated with these reviewers 18 Reproductive Investigation in Paris March 18 about your manuscript? 19 2019 19 A. No. WAS MARKED BY THE REPORTER 20 20 Q. If you turn to the -- turn to page 13 of 21 FOR IDENTIFICATION 21 22 BY MR. HEGARTY: 22 this -- of the manuscript, please. 23 O. Next I've marked as Exhibit 32 an abstract 23 A. References? submission to the 66th Annual Scientific Meeting for Q. No, at the top, conflict of interest. You 24 24 the Society of Reproductive Investigation in Paris in reported that you have no conflict of interest to

	Page 487		Page 489
1	disclose to declare; is that correct?	1	A. Which one are you talking about?
2	A. Correct.	2	Q. 34.
3	Q. So there you made no reference to your	3	A. Yes. It's an automated e-mail. Yes, what
4	serving as a consulting expert for Plaintiffs in the	4	about it?
5	talc litigation, correct?	5	Q. This is just an this is an e-mail
6	A. We didn't think we needed to do it.	6	advising you that your manuscript has got a number,
7	Q. Why did you think you didn't need to?	7	correct?
8	A. I because we don't think that this is a	8	A. That's the same e-mail like this one. I got
9	commercial conflict of interest because I did the	9	a number, yes. Number
10	work in my lab, and I paid for it from my discretion	10	DEPOSITION EXHIBIT 35
11 12	fund, and everything from that, it's another paper for me, and I'm not gaining any special financial interest	11 12	Final Decision, Rejection of Manuscript WAS MARKED BY THE REPORTER
13	from it, other than it looks like any other paper I	13	FOR IDENTIFICATION
14	have.	14	BY MR. HEGARTY:
15	Q. This manuscript reported results for	15	Q. I've next marked as Exhibit Number 35 what's
16	48 hours. Why did you change from 48 hours to	16	entitled at the top Final Decision. This is the
17	reporting 72 hours?	17	rejection of your manuscript by Gynecologic Oncology;
18	A. Yeah. You asked me this question	18	is that correct?
19	previously, and I told you every 48 hours will be	19	A. This is the review results of my, yeah,
20	corrected to 72 hours.	20	Gynecology Oncology manuscript.
21	Q. So in the manuscript so in this	21	Q. Included within this document are the
22	manuscript submission, the reference to 48 should be	22	reviewer comments, correct?
23	to 72?	23	A. Correct.
24 25	A. We fixed it in the SRI manuscript to 72 hours. All the work was done at 72 hours.	24 25	Q. Did you provide any response to the reviewer comments?
23	72 hours. An the work was done at 72 hours.	23	comments:
	Page 488		Page 490
1	DEPOSITION EXHIBIT 33	1	A. No. Response to this manuscript to this
2	DEPOSITION EXHIBIT 33 Notification of Submission to	2	A. No. Response to this manuscript to this journal?
2 3	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology	2 3	A. No. Response to this manuscript to this journal? Q. Correct.
2 3 4	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER	2 3 4	A. No. Response to this manuscript to this journal? Q. Correct. A. No.
2 3 4 5	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION	2 3 4 5	 A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with
2 3 4 5 6	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on	2 3 4 5 6	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript?
2 3 4 5 6 7	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that?	2 3 4 5 6 7	 A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is
2 3 4 5 6 7 8	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes.	2 3 4 5 6 7 8	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35?
2 3 4 5 6 7 8 9	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY:	2 3 4 5 6 7 8 9	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes.
2 3 4 5 6 7 8	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the	2 3 4 5 6 7 8	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36
2 3 4 5 6 7 8 9 10	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY:	2 3 4 5 6 7 8 9 10	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes.
2 3 4 5 6 7 8 9 10	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences,
2 3 4 5 6 7 8 9 10 11 12 13 14	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34	2 3 4 5 6 7 8 9 10 11 12 13 14	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION
2 3 4 5 6 7 8 9 10 11 12 13 14 15	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DEPOSITION EXHIBIT 33 Notification of Submission to Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you put a number on that? MR. HEGARTY: Yes. BY MR. HEGARTY: Q. I've next marked as Exhibit 33 the notification of your submission to Gynecologic Oncology, correct? A. Correct. DEPOSITION EXHIBIT 34 Notification From Gynecologic Oncology WAS MARKED BY THE REPORTER FOR IDENTIFICATION MS. O'DELL: Did you just mark another exhibit? MR. HEGARTY: Yes. BY MR. HEGARTY:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Response to this manuscript to this journal? Q. Correct. A. No. Q. Was this the last communication you had with Gynecologic Oncology regarding your manuscript? A. This is Q. 35? A. Yes. DEPOSITION EXHIBIT 36 Manuscript to Reproductive Sciences, Submission Date of January 3, 2019 WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've next marked as 36 a copy of your manuscript we received from Plaintiffs' counsel last week. This is the manuscript to Reproductive Sciences with a submission date at the very first page of January 3, 2019, correct? A. Correct.
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Case 3:16-md-02738-MAS-RLS Document 9731-16 Filed 05/07/19 Page 39 of 58 PageID: 33696 Ghassan Saed, Ph.D.

	Page 491		Page 493
1	FOR IDENTIFICATION	1	A. Page 13?
2	BY MR. HEGARTY:	2	Q. Correct.
3	Q. I've next marked as Exhibit 37 another	3	A. Okay.
4	document we received from Plaintiffs' counsel last	4	Q. If you look at the conflict of interest
5	week, which appears to be another copy of the same	5	section, you state, the authors declare that there is
6	document?	6	no conflicts of interest, correct?
7	A. Yes, it's the same. They look the same.	7	A. That's what it says, yes.
8	DEPOSITION EXHIBIT 38	8	Q. But in your current manuscript, you do
9	Manuscript with Submission Date	9	disclose a conflict of interest. Why did you change
10	of October 10, 2018	10	between your initial submission and your current
11	WAS MARKED BY THE REPORTER	11	version?
12	FOR IDENTIFICATION	12	A. Yeah. This was submitted by Dr. Harper, and
13	BY MR. HEGARTY:	13	when this the manuscript came back with with the
14	Q. I'm marking next as Exhibit 38 a copy of a	14	revisions, I revised it according to the reviewer
15	document received late last night from Plaintiffs'	15	comments, and I noticed that there is a mistake in the
16	counsel, which appears to be a manuscript with a	16	conflict of interest, I added it, because we really
17	submission date on the very first page of October 10,	17	don't believe that we have a conflict of interest.
18	2018. Do you see that, Doctor?	18	That's the idea.
19	A. Yes, I do.	19	Q. When you say we, who are you talking about?
20	Q. Does this does Exhibit 38 represent the	20	A. The lab, our lab. We don't believe, because
21	initial submission of your manuscript to Reproductive	21	we this is lab work from our lab, financed by our
22	Sciences?	22	lab.
23	A. Correct.	23	DEPOSITION EXHIBIT 39
24	Q. Did you submit this manuscript with any type	24	Correspondence with Reproductive Sciences
25	of cover letter?	25	Regarding Manuscript
	Page 492		Page 494
1	Page 492 A. I think so, yes. You should have it.	1	Page 494 WAS MARKED BY THE REPORTER
2	A. I think so, yes. You should have it.Q. You think there is a cover letter?	2	WAS MARKED BY THE REPORTER FOR IDENTIFICATION
2 3	A. I think so, yes. You should have it.Q. You think there is a cover letter?A. Yes.		WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
2 3 4	A. I think so, yes. You should have it.Q. You think there is a cover letter?A. Yes.Q. I've not seen that cover letter, so I don't	2 3 4	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39
2 3 4 5	 A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. 	2 3 4 5	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you
2 3 4 5 6	 A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. MS. O'DELL: I don't have it. 	2 3 4 5 6	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you pass one this way? These are
2 3 4 5 6 7	 A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. MS. O'DELL: I don't have it. THE WITNESS: No? This is 	2 3 4 5 6 7	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you pass one this way? These are BY MR. HEGARTY:
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2 3 4 5 6 7 8 9 10 11 12 13	A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. MS. O'DELL: I don't have it. THE WITNESS: No? This is BY MR. HEGARTY: Q. If you would turn over to page 13 of this document. A. Can you give me one minute one second, please? Q. Sure, go ahead.	2 3 4 5 6 7 8 9 10 11 12 13	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you pass one this way? These are BY MR. HEGARTY: Q a copy of correspondence with Reproductive Sciences regarding your manuscript, correct? A. Yes. DEPOSITION EXHIBIT 40 Response to Reviewer Comments
2 3 4 5 6 7 8 9 10 11 12 13 14	A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. MS. O'DELL: I don't have it. THE WITNESS: No? This is BY MR. HEGARTY: Q. If you would turn over to page 13 of this document. A. Can you give me one minute one second, please? Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't	2 3 4 5 6 7 8 9 10 11 12 13 14	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you pass one this way? These are BY MR. HEGARTY: Q a copy of correspondence with Reproductive Sciences regarding your manuscript, correct? A. Yes. DEPOSITION EXHIBIT 40 Response to Reviewer Comments WAS MARKED BY THE REPORTER
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. MS. O'DELL: I don't have it. THE WITNESS: No? This is BY MR. HEGARTY: Q. If you would turn over to page 13 of this document. A. Can you give me one minute one second, please? Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I	2 3 4 5 6 7 8 9 10 11 12 13 14 15	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you pass one this way? These are BY MR. HEGARTY: Q a copy of correspondence with Reproductive Sciences regarding your manuscript, correct? A. Yes. DEPOSITION EXHIBIT 40 Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I think so, yes. You should have it. Q. You think there is a cover letter? A. Yes. Q. I've not seen that cover letter, so I don't think we have it. MS. O'DELL: I don't have it. THE WITNESS: No? This is BY MR. HEGARTY: Q. If you would turn over to page 13 of this document. A. Can you give me one minute one second, please? Q. Sure, go ahead. A. I just want to see. I'm not sure. I can't remember. Actually, Dr. Harper submitted this, so I don't remember. I'll take my answer. Q. How can you tell that Dr. Harper submitted this? A. Because I instructed her I instructed her to do so.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm next marking as Exhibit 39 MS. O'DELL: I'm sorry, could you pass one this way? These are BY MR. HEGARTY: Q a copy of correspondence with Reproductive Sciences regarding your manuscript, correct? A. Yes. DEPOSITION EXHIBIT 40 Response to Reviewer Comments WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to next mark as Exhibit 40 a copy of another document received late last night. Would you tell me what Exhibit 40 is? MR. HEGARTY: I'm not going to give
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1	THE WITNESS: Yeah, this is my	1	BY MR. HEGARTY:
2	response.	2	Q. I've marked next as Exhibit 44 a document
3	BY MR. HEGARTY:	3	titled, The Role of Talc Powder Exposure in Ovarian
4	Q. Your response to their comments?	4	Cancer, Mechanistic Approach. Do you see that?
5	A. To the to the reviewer comments.	5	A. Yes.
6	Q. Is this the only response that you prepared	6	Q. Is this the budget document you mentioned at
7	to the reviewer comments?	7	your last deposition?
8	A. Correct.	8	A. Yes.
9 10	MS. O'DELL: Other than the resubmitted manuscript, which he's testified to?	10	Q. Who prepared this? A. I did.
11	THE WITNESS: Yeah, that's the	11	Q. When was it prepared?
12	response, yes.	12	A. September. Middle of September.
13	DEPOSITION EXHIBIT 41	13	Q. Of 2018?
14	Correspondence with Reproductive Sciences	14	A. '17.
15	Regarding Manuscript	15	Q. Of 2017. Why did you prepare this?
16	WAS MARKED BY THE REPORTER	16	A. To see how much this project would cost me
17	FOR IDENTIFICATION	17	if I want to do it.
18	BY MR. HEGARTY:	18	Q. Was this document requested by someone?
19	Q. I've marked next as Exhibit 41 additional	19	A. No.
20	correspondence you had with Reproductive Sciences	20	Q. Did someone ask you to prepare it?
21	regarding your manuscript, correct?	21	A. No.
22	A. They sent me this e-mail, yes. This is an	22	Q. Who did you prepare this for?
23 24	automated e-mail sent to everybody. DEPOSITION EXHIBIT 42	23 24	A. For me, for my lab.Q. Did you give this document to anybody?
25	Chart of SNP Data	25	A. This document, I gave it to Beasley Allen.
23	Chart of Sixi Bata	25	71. This document, I gave it to beastey thien.
	Page 496		Page 498
1	WAS MARKED BY THE REPORTER	1	Q. Would you turn to the second page of this
2	FOR IDENTIFICATION	2	document, please? With regard to Aim I, did you
3	BY MR. HEGARTY:	3	perform the tests described in Aim I?
4	Q. I'm marking next as Exhibit 42 a chart we	4	A. It was just a proposal.
5	were provided by counsel for Plaintiffs. What is this	5	Q. Did you actually perform the tests?
6	chart?	6	A. No. My that was my plan, my thinking.
7	A. This is the SNP data.	7	Q. Your initial thinking said you strike
8	Q. The SNP data for your manuscript?	U	that. You noted with regard to Aim I that you intended
9 10	A. For my for my manuscript, and for the poster that we're going to submit, to to present.	9 10	to expose cells to increasing doses of talc of 100, 200 and 500, correct?
11	DEPOSITION EXHIBIT 43	11	A. That's what it says.
12	E-Mail from Sharon Pepe	12	Q. You also noted that you intended to test a
13	WAS MARKED BY THE REPORTER	13	number of markers. When you ultimately did your
14	FOR IDENTIFICATION	14	manuscript, you did not test NADPH, Nox2 and Nox4, GST
15	DVAM HECAPEN	15	and 8-OHdG. Why did you not do those tests
10	BY MR. HEGARTY:		
16	Q. I've marked marking next as Exhibit 43 a	16	MS. O'DELL: Object to form.
16 17	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is	17	THE WITNESS: I think the
16 17 18	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your	17 18	THE WITNESS: I think the activity
16 17 18 19	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct?	17 18 19	THE WITNESS: I think the activity BY MR. HEGARTY:
16 17 18 19 20	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct.	17 18 19 20	THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST?
16 17 18 19 20 21	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44	17 18 19 20 21	THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah.
16 17 18 19 20 21 22	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44 The Role of Talc Powder Exposure in Ovarian	17 18 19 20 21 22	THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah. Q. Why did you not do the others?
16 17 18 19 20 21 22 23	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44 The Role of Talc Powder Exposure in Ovarian Cancer, Mechanistic Approach	17 18 19 20 21 22 23	THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah. Q. Why did you not do the others? A. Financial. I mean, they're all the same.
16 17 18 19 20 21 22	Q. I've marked marking next as Exhibit 43 a copy we received last time at your deposition, which is an e-mail from Sharon Pepe regarding the cost of your testing, your experiments, correct? A. Correct. DEPOSITION EXHIBIT 44 The Role of Talc Powder Exposure in Ovarian	17 18 19 20 21 22	THE WITNESS: I think the activity BY MR. HEGARTY: Q. Other than GST? A. Yeah. Q. Why did you not do the others?

	Page 499		Page 501
1	most key one, and it's financial basically.	1	A. After this?
2	Q. What was your methodology for picking the	2	Q. After this.
3	markers that you did?	3	A. Yes.
4	A. The one we published most with, the	4	MS. O'DELL: Object to the form.
5	technology available.	5	THE WITNESS: That's what we
6	Q. Have you not published on any on NA	6	submitted to SRI.
7	NADPH, Nox2 and Nox4 and 8-OHdG?	7	BY MR. HEGARTY:
8	MS. O'DELL: Object to form.	8	Q. And how much time total time did it take
9	THE WITNESS: We we did publish	9	to execute what you eventually did do?
10	some paper with NADPH oxidase, yes.	10	A. I cannot remember.
11	BY MR. HEGARTY:	11	MS. O'DELL: Object to the form.
12	Q. Why did you not include that marker?	12	THE WITNESS: I cannot remember.
13	A. As I said, financial.	13	BY MR. HEGARTY:
14 15	Q. When you say financial, what do you mean?A. Money, cost.	14 15	Q. If you look at Aim II, do you see that? A. Yes.
16	Q. It costs more to include it?	16	Q. If you turn over to the next page over, the
17	A. It costs more to include it.	17	carryover paragraph on the next page at the top
18	Q. Is there some publication where you can go	18	A. Yes.
19	to, to determine what the key markers are to do in a	19	Q you report the intent to look at a number
20	test like this?	20	of SNPs, and then you list those that include SNPs for
21	MS. O'DELL: Object to the form.	21	BRCA1 and BRCA2. Do you see that?
22	THE WITNESS: It's a practice in our	22	A. I do, correct.
23	lab that we use pro-oxidant as myeloperoxidase, iNOS,	23	Q. You did not do those tests, correct?
24	nitrite, nitrate, and anti-oxidant as SOD, catalase,	24	A. Correct.
25	and glutathiones. So just a normal it's a it's	25	Q. Why not?
	Page 500		Page 502
1	Page 500	1	Page 502
1 2	a a practice that we use in the lab.	1	A. Expenses.
1 2 3	a a practice that we use in the lab. BY MR. HEGARTY:	2	A. Expenses.Q. When you say expenses, were you told not to
3	a a practice that we use in the lab.BY MR. HEGARTY:Q. If you look at the very end of part end	2 3	A. Expenses. Q. When you say expenses, were you told not to do them by somebody?
3 4	 a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish 	2	A. Expenses.Q. When you say expenses, were you told not to do them by somebody?A. Told, no. This is just more money to do it.
3 4 5	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our	2 3 4	 A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it.
3 4	 a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish 	2 3 4 5	A. Expenses.Q. When you say expenses, were you told not to do them by somebody?A. Told, no. This is just more money to do it.
3 4 5 6	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of	2 3 4 5 6	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first
3 4 5 6 7	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that?	2 3 4 5 6 7	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative
3 4 5 6 7 8	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct?	2 3 4 5 6 7 8 9 10	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical
3 4 5 6 7 8 9 10	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with
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3 4 5 6 7 8 9 10 11 12 13 14 15	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When? Q. You did some of the tests described with	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the data.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When? Q. You did some of the tests described with different dosages that you talk about in Aim I,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the data. Q. The reason you didn't test those SNPs was
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	a a practice that we use in the lab. BY MR. HEGARTY: Q. If you look at the very end of part end of the part of Aim I, it says, we hope to accomplish this aim by October 10th in order to submit our findings to our premier society, Society of Reproductive Investigation, SRI. Do you see that? A. Yes. Q. You did ultimately submit some findings to SRI, correct? A. Correct. Q. The the description below the text says the estimated time to execute this aim is four weeks. Do you see that? A. Where do you see that? Q. (Gesturing). A. Yes. Q. You did do some of the tests that are described in Aim I, correct? A. When? Q. You did some of the tests described with different dosages that you talk about in Aim I, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Expenses. Q. When you say expenses, were you told not to do them by somebody? A. Told, no. This is just more money to do it. And and unnecessary to do it. Q. Why did you propose to do it in the first place? A. Because if you have if I have to choose between oxidative BRCA1 and BRCA2 are not oxidative stress markers. They're just they can have clinical value when you interpret the data using patient with BRCA1 mutation versus patient without BRCA1 mutation. Q. Why did you propose to do it in the first place then? A. I just told you. Q. Why is that? A. Because when you interpret the data, okay, some data some response of patients with BRCA1 negative versus BRCA1 positive, they're different outcome. So this will help in interpret the data. Q. The reason you didn't test those SNPs was because of expense, correct?

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1	BY MR. HEGARTY:	1	Q let me make sure that I'm clear. You're
2	Q. If you look at Aim III	2	describing here evaluating apoptosis using cells in
3	A. You're talking about BRCA1?	3	agar, correct?
4	Q. I'm talking about BRCA1 and BRCA2.	4	MS. O'DELL: Object to the form.
5	A. Yes.	5	THE WITNESS: This is a proposal. I
6	Q. If you look at Aim III, none of those	6	don't have to do everything I said in the proposal,
7	tests strike that. Under Aim III, you have done	7	okay. I I propose to do transformation assays, and
8	none of those tests, correct?	8	then after I do the transformation assays, I will do
9	A. Not correct.	9	apoptosis. That's what I propose to do.
10	Q. Well, the Aim III includes looking	10	BY MR. HEGARTY:
11	at normal ovarian epithelial cell lines treated	11	Q. You did
12	with tale that will be washed and suspended in agar	12	A. But I did
13	at 500 cells per well and layered on a top of a base of	13	Q. I'm sorry. Go ahead.
14	20 percent agar in a 96 well plate. Did you do that	14	A. But I did I did apoptosis because I don't
15 16	test? A. No.	15 16	want to go through all the expenses doing all this experiment, and the normal ovarian primary primary
17	Q. Why did you not do that test?	17	normal ovarian cells are very, very limited, very hard
18	A. What's the right word. Expense. Is that	18	to grow, so it takes more money, more time, more effort
19	the word.	19	to grow them and to do them, and you cannot do this
20	Q. Did you do any of the tests described in	20	test with immortalized.
21	Aim III?	21	Q. You did not evaluate in your manuscript
22	A. Yes, I did.	22	apoptosis using the method described in Aim III,
23	Q. For purpose of your manuscript?	23	correct?
24	A. Yes, I did.	24	MS. O'DELL: Object to the form.
25	Q. Which one?	25	THE WITNESS: One question again,
	Page 504		Page 506
1	Page 504	1	Page 506
1	A. Apoptosis and proliferation.	1 2	I'm sorry.
	A. Apoptosis and proliferation.Q. Where is that described?	1 2 3	I'm sorry. BY MR. HEGARTY:
2 3	A. Apoptosis and proliferation.Q. Where is that described?A. Apoptosis, all the way down.	3	I'm sorry. BY MR. HEGARTY: Q. Doctor
2 3 4	A. Apoptosis and proliferation.Q. Where is that described?A. Apoptosis, all the way down.MR. LAPINSKI: Dr. Saed, just make		I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying.
2 3	A. Apoptosis and proliferation.Q. Where is that described?A. Apoptosis, all the way down.	3 4	I'm sorry. BY MR. HEGARTY: Q. Doctor
2 3 4 5	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down.	3 4 5 6 7	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct?
2 3 4 5 6 7 8	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY:	3 4 5 6 7 8	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form.
2 3 4 5 6 7 8 9	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where.	3 4 5 6 7 8 9	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct.
2 3 4 5 6 7 8 9	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis.	3 4 5 6 7 8 9	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the	3 4 5 6 7 8 9 10	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct?
2 3 4 5 6 7 8 9 10 11 12	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells	3 4 5 6 7 8 9 10 11 12	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a
2 3 4 5 6 7 8 9 10 11 12 13	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar?	3 4 5 6 7 8 9 10 11 12 13	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No.	3 4 5 6 7 8 9 10 11 12 13 14	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form.	3 4 5 6 7 8 9 10 11 12 13 14 15	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY:	3 4 5 6 7 8 9 10 11 12 13 14	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Where do you describe in Aim III the testing	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on the immortalized cells treated with the talc powder.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Where do you describe in Aim III the testing that you said you did for apoptosis? MS. O'DELL: Object to form. THE WITNESS: We're yes. We're	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on the immortalized cells treated with the talc powder. Does that make sense? Q. You chose to do a different method to evaluate apoptosis?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Where do you describe in Aim III the testing that you said you did for apoptosis? MS. O'DELL: Object to form. THE WITNESS: We're yes. We're really confusing the questions. Okay. One at a time.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on the immortalized cells treated with the talc powder. Does that make sense? Q. You chose to do a different method to evaluate apoptosis? A. No, I did not say that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Where do you describe in Aim III the testing that you said you did for apoptosis? MS. O'DELL: Object to form. THE WITNESS: We're yes. We're really confusing the questions. Okay. One at a time. Which one you want me to answer first?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on the immortalized cells treated with the talc powder. Does that make sense? Q. You chose to do a different method to evaluate apoptosis? A. No, I did not say that. Q. Well, this method says you were going to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Where do you describe in Aim III the testing that you said you did for apoptosis? MS. O'DELL: Object to form. THE WITNESS: We're yes. We're really confusing the questions. Okay. One at a time. Which one you want me to answer first? BY MR. HEGARTY:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on the immortalized cells treated with the talc powder. Does that make sense? Q. You chose to do a different method to evaluate apoptosis? A. No, I did not say that. Q. Well, this method says you were going to extract samples from the cells suspended in agar and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Apoptosis and proliferation. Q. Where is that described? A. Apoptosis, all the way down. MR. LAPINSKI: Dr. Saed, just make sure you keep your voice up. THE WITNESS: Oh, sorry. All the way down. BY MR. HEGARTY: Q. Show me where. A. In bold, you see it, apoptosis. Q. But isn't but aren't the isn't the analysis for apoptosis to be taken from the cells suspended in agar? A. No. MS. O'DELL: Object to form. BY MR. HEGARTY: Q. Where do you describe in Aim III the testing that you said you did for apoptosis? MS. O'DELL: Object to form. THE WITNESS: We're yes. We're really confusing the questions. Okay. One at a time. Which one you want me to answer first?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I'm sorry. BY MR. HEGARTY: Q. Doctor A. I don't understand what you're saying. Q. You describe in Aim III a method using cells suspended in agar that from which you're going to test for apoptosis, correct? MS. O'DELL: Object to the form. THE WITNESS: Not correct. BY MR. HEGARTY: Q. How is that not correct? A. This is a proposal. Again, this is a proposal to do. My proposal was to take normal epithelial cells primary to that assay and look for transformation and then check for apoptosis in period. In my manuscript, I chose to do apoptosis on the immortalized cells treated with the talc powder. Does that make sense? Q. You chose to do a different method to evaluate apoptosis? A. No, I did not say that. Q. Well, this method says you were going to

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	Page 507		Page 509
1	what you're saying?	1	BY MR. HEGARTY:
2	Q. Yes.	2	Q. You purported to do this test
3	A. No, I did not.	3	A. What's this test?
4	Q. Okay. That was my question.	4	Q using the cells suspended in agar,
5	A. I did apoptosis part of it.	5	correct
6	Q. Understood.	6	MS. O'DELL: Object to form.
7	A. In a different cell line.	7	BY MR. HEGARTY:
8	Q. Correct.	8	Q in this proposal?
9	A. Yes, thank you. I like that.	9	A. That's not a test. A test is something you
10	Q. Now, this the test you described in	10	test. This is growing cells.
11	Aim I I'm sorry. The test you described in Aim III	11	Q. You proposed to do tests from cells growing
12	is a test to look for neoplastic transformation,	12	in agar?
13	MS. O'DELL: Object to the form.	13	A. What tests? MS. O'DELL: Object.
14 15	THE WITNESS: All of it, or just the	14 15	THE WITNESS: I'm asking you what
16	part of the agar and growing up the	16	tests you're asking me?
17	BY MR. HEGARTY:	17	BY MR. HEGARTY:
18	Q. Well, if you look at the aim, it says	18	Q. The tests you described in this
19	exposure to tale results in neoplastic transformation	19	A. What tests? Tell me, what tests?
20	of normal ovarian surface epithelial cells. Do you see	20	Q. Doctor, can you read this piece of paper?
21	that in bold?	21	A. I read it. I am the one who wrote it. I
22	A. I do.	22	know exactly what I wrote.
23	Q. That was the aim of this test, correct?	23	Q. And you wanted to do these tests
24	A. Correct.	24	A. What these tests?
25	Q. You were going to do this test and look to	25	Q because, as you say at the end, we expect
	Page 508		Page 510
4		_	· ·
1	see whether there was neoplastic transformation of	1	that exposure of normal ovarian surface epithelial
3	normal ovarian surface epithelial cells, correct? MS. O'DELL: Object to the form.	2	cells to talc will result in neoplastic transformation of these cells over time, which is critical in
4	There are multiple tests described in this paragraph.	4	establishing a cause-and-effect relationship. You
5	THE WITNESS: I don't we are	5	wrote that, correct?
6	talking about something I didn't do.	6	MS. O'DELL: Object. Object to the
7	BY MR. HEGARTY:	7	form.
8	Q. Understood.	8	THE WITNESS: What you read is from
9	A. I proposed to do, but I didn't do. It's	9	here. That is what I wrote.
10	just a proposal.	10	BY MR. HEGARTY:
11	Q. Right. You did not do any test to directly	11	Q. And you did not do the tests in Aim III?
12	look at neoplastic transformation of normal epithelial	12	MS. O'DELL: Object to the form,
13	cells, correct?	13	misrepresents what he just said.
14	A. Not correct.	14	BY MR. HEGARTY:
15 16	Q. How is that not correct?A. Because I did apoptosis and proliferation.	15 16	Q. Correct?A. I just said, if you want okay. If you
17	Q. That's a those are different tests than	17	want, we can
18	you describe here?	18	MS. O'DELL: No, just be clear.
19	MS. O'DELL: Object to the form.	19	THE WITNESS: spend more time.
20	BY MR. HEGARTY:	20	I'm very clear. I'm very clear.
21	Q. Correct?	21	MS. O'DELL: Be clear in your
22	MS. O'DELL: Object to the form.	22	testimony. Excuse me, Doctor. He's asked you a very
23	THE WITNESS: Okay. Let's make this	23	confusing question. I've objected to the form. Be
24	easy. What test you are referring to? Name me name	24	clear on what
25	one test, please.	25	THE WITNESS: Okay.
1			

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	Page 511		Page 513
1	MS. O'DELL: your tests are that	1	A. What page is that?
2	you performed.	2	Q. Same Aim III we've been long at.
3	MR. HEGARTY: Well, it's not very	3	A. 27? Are you talking about 27?
4	confusing. It's only very confusing to the doctor	4	Q. Yes.
5	because he obviously doesn't want to answer.	5	A. Reference 27. Okay.
6	THE WITNESS: No, no, not at all.	6	Q. Did you perform a neoplastic transformation
7	Not at all.	7	assay for purpose of your manuscript?
8	MS. O'DELL: That's that's really	8	A. Where is 27. One more time, please.
9	improper, and	9	Q. You described in this aim utilizing a
10	THE WITNESS: I I would really	10	neoplastic transformation assay, correct?
11	answer any question you want me to answer.	11	A. Yes.
12	MS. O'DELL: Fine.	12	Q. Did you perform that assay for purposes of
13	THE WITNESS: Ask me, please, any	13	your manuscript?
14	questions you want. What I'm trying to say, I don't	14	A. No.
15	want to answer something I don't understand. I'm	15	Q. Turn over to the last page or second to
16	trying to ask you simple question, can you clarify your	16	last page, which is Phase II. Do you see that?
17	question, say what tests you are referring to. So that	17	A. Phase II. General Methods.
18	is very simple question. You're asking me what	18	Q. Phase II. Phase II will be the
19	tests	19	S-nitrosylation of caspase-3 assay/apoptosis. Do you
20	BY MR. HEGARTY:	20	see that?
	Q. I agree.	21	A. I do.
21 22		21	
	A I wanted to do. I'm asking you what you	23	Q. Did you do that test?
23	are the tests you are looking you are talking about.		A. I did the S the caspase-3
24 25	Q. I agree, my questions have been very simple.	24 25	assay/apoptosis, yes.
23	Doctor, did you did not perform the tests described in	23	Q. Did you do the did you do the
	Page 512		Page 514
1	Aim III, correct? That was the question.	1	S-nitrosylation?
2	MS. O'DELL: Object to the form.	2	MS. O'DELL: Objection.
3	THE WITNESS: I did not perform all	3	BY MR. HEGARTY:
4	the tests here. I performed part of it, which is	4	Q. Did you do the S-nitrosylation of caspase-3?
5	apoptosis part.	5	A. No. We did the caspase-3 activity.
6	BY MR. HEGARTY:	6	Q. Why did you not do the S-nitrosylation of
7	Q. Using the test method you describe in	7	caspase-3?
8	Aim III?	8	A. You want to do the S-nitrosylation of
9	MS. O'DELL: Object to the form.	9	caspase-3 if you want to know the mechanism by
10	THE WITNESS: What test method? You	10	which caspase-3 is nitrosylated, and since we are not
11	see, that's where my concern is, what test method	11	doing the transformation, we're just doing it with
12	you're talking about.	12	immortalized cell lines to figure out if talc has an
13	BY MR. HEGARTY:	13	effect or not, then we just did the activity of
14	Q. The test method involving suspending cells	14	caspase-3. S-nitrosylation of caspase-3 affect
15	in agar.	15	caspase-3 activity, so it's an incorrect method.
16	A. That's not a test method.	16	MR. HEGARTY: Let's take a quick
17	Q. What is it?	17	break.
18	A. That's a culture. We treat that's not a	18	THE VIDEOGRAPHER: We're going off
19	treatment. This is where you put cells this culture.	19	the record, the time is 12:08.
20	Q. Did you do that for purposes of your	20	(There was a recess taken.)
21	manuscript?	21	THE VIDEOGRAPHER: We're back on the
22	A. No.	22	record at 12:26.
23	Q. There's a reference at the in the third	23	DEPOSITION EXHIBIT 45
24	line down to utilizing a neoplastic transformation	24	Form B
25	assay.	25	WAS MARKED BY THE REPORTER
23	usouj.	23	11 IO IN MALED DI THE RELORIER

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	Page 515		Page 517
1	FOR IDENTIFICATION	1	THE WITNESS: I don't understand the
2	BY MR. HEGARTY:	2	question.
3	Q. I've marked next as Exhibit 45 a copy of	3	BY MR. HEGARTY:
4	a document we were provided by Plaintiffs' counsel	4	Q. Well, shouldn't you describe under Agency
5	last week that has Form B at the top. Doctor, what is	5	the entity for whom you're consulting?
6	Form B?	6	A. Not necessarily.
7	A. This is the disclosure of consulting for	7	Q. Well, you're not you're in this for
8	Wayne State University for faculty.	8	this litigation, you're consulting with Beasley Allen,
9	Q. This is a form you prepared?	9	correct?
10	A. This is the form they give us to fill out.	10	A. Correct.
11	Q. You filled out Exhibit 45?	11	Q. Why didn't you identify Beasley Allen under
12	A. I did.	12	Agency?
13	Q. You reported in Exhibit 45 for 2018 your	13	A. Unnecessary to do because the consultation
14	consultation work at four hours every Friday; is that	14	with Beasley Allen were done was done under the
15	correct?	15	DS Biotech.
16	A. Correct.	16	Q. Some of the consulting that you did for
17	Q. Does that accurately describe the amount of	17	Beasley Allen was during the week, though, correct,
18	time and when you spent that time consulting in 2018?	18	during that half day a week?
19	MS. O'DELL: Object to the form.	19	A. Friday, yes. I'm allowed to do half a day a
20	THE WITNESS: No. So this is only	20	week.
21	included the consultation we have half a day a week,	21	Q. Your interpretation of the word agency would
22	from 9:00 to 5:00 during business hours, 9:00 to	22	be to identify your company that you consult with as
23	5:00	23	opposed to who you're consulting with?
24	MS. O'DELL: Excuse me.	24	A. That's what I was advised to do by Faculty
25	THE WITNESS: Monday through	25	Affair.
	Page 516		Page 518
1	Friday. After hours, after 5:00, weekends are not	1	Q. Who advised you to do that?
2	included here. This is just the official time of the	2	A. Faculty Affair.
3	university.		
		3	<u> </u>
4		3	Q. Who is that?
4 5	BY MR. HEGARTY:	4	Q. Who is that?A. You have the e-mail right there.
5	BY MR. HEGARTY: Q. So what you list here is every Friday	4 5	Q. Who is that?A. You have the e-mail right there.Q. Okay. We'll jump to that e-mail.
5 6	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of	4 5 6	Q. Who is that?A. You have the e-mail right there.Q. Okay. We'll jump to that e-mail.DEPOSITION EXHIBIT 46
5 6 7	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation?	4 5 6 7	 Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B
5 6	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of	4 5 6	Q. Who is that?A. You have the e-mail right there.Q. Okay. We'll jump to that e-mail.DEPOSITION EXHIBIT 46
5 6 7 8	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form.	4 5 6 7 8	 Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER
5 6 7 8 9	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have	4 5 6 7 8 9	 Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION
5 6 7 8 9 10	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day	4 5 6 7 8 9 10	 Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY:
5 6 7 8 9 10 11	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the	4 5 6 7 8 9 10 11	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the
5 6 7 8 9 10 11 12	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then	4 5 6 7 8 9 10 11 12	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with
5 6 7 8 9 10 11 12 13	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY:	4 5 6 7 8 9 10 11 12 13	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was
5 6 7 8 9 10 11 12 13 14	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry.	4 5 6 7 8 9 10 11 12 13 14	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that
5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university?	4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46?
5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't
5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university? Q. To the university? A. No.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't care. They just want DS Biotech.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university? Q. To the university? A. No. Q. When you say description of consulting	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't care. They just want DS Biotech. Q. The person you spoke with was the person who
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university? Q. To the university? A. No. Q. When you say description of consulting owner, what does that mean?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't care. They just want DS Biotech. Q. The person you spoke with was the person who sent you this e-mail, Kate Laimbeer?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university? Q. To the university? A. No. Q. When you say description of consulting owner, what does that mean? A. The owner of the DS Biotech.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't care. They just want DS Biotech. Q. The person you spoke with was the person who sent you this e-mail, Kate Laimbeer? A. Correct.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university? Q. To the university? A. No. Q. When you say description of consulting owner, what does that mean? A. The owner of the DS Biotech. Q. Does the agency, though, refer to who you're	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't care. They just want DS Biotech. Q. The person you spoke with was the person who sent you this e-mail, Kate Laimbeer? A. Correct. Q. This notes that you had this phone call
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. HEGARTY: Q. So what you list here is every Friday between 9:00 and 5:00 you've averaged four hours of consultation? A. I have MS. O'DELL: Object to the form. THE WITNESS: I have half a day deducted from my 9:00 to 5:00 obligation to the university. And then BY MR. HEGARTY: Q. And as I'm sorry. A I can work extra. Q. You don't have to report that working extra? A. To the university? Q. To the university? A. No. Q. When you say description of consulting owner, what does that mean? A. The owner of the DS Biotech.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Who is that? A. You have the e-mail right there. Q. Okay. We'll jump to that e-mail. DEPOSITION EXHIBIT 46 E-Mail with Advice Regarding Form B WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I've marked as Exhibit 46 the e-mail the doctor pointed in follow-up to or in connection with an answer he gave to a question as far as how he was advised to fill out Form B. Can you tell me about that advice as as it pertains to Exhibit 46? A. Yes. That's what I consulted with them, that I I did not need to itemize what companies under the DS Biotech I consulted with. They don't care. They just want DS Biotech. Q. The person you spoke with was the person who sent you this e-mail, Kate Laimbeer? A. Correct.

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Ghassan Saed, Ph.D.

Page 519 Page 521 1 A. It says so, yes. Exhibit 47, you listed --Q. Did you have such a discussion with anyone 2 2 MS. O'DELL: I'm sorry, Mark. When before the February 2019 time period about how to fill 3 3 you say a hundred hours of work, which two invoices did out this form? you -- or which invoices --5 A. No. It's after my previous deposition that 5 MR. HEGARTY: I'm adding up we were talking about conflict of interest, I wanted to invoice -- the first one, the second one, and the third 6 6 make sure that I'm doing the right thing. I called 7 7 one in -them again, and I discussed with them, and they said I 8 MS. O'DELL: What are the dates on 8 was -- what I was doing is perfectly all right. 9 9 them, or the invoice numbers? 10 **DEPOSITION EXHIBIT 47** 10 THE WITNESS: The third one is Form B for Calendar Year 2017 11 11 January. 12 WAS MARKED BY THE REPORTER 12 MR. HEGARTY: They are --13 THE WITNESS: 22 and 17. 13 FOR IDENTIFICATION 14 BY MR. HEGARTY: 14 MR. HEGARTY: I don't see invoice 15 Q. I've next marked as Exhibit 47 --15 numbers on them. 16 MS. O'DELL: Thank you. 16 THE WITNESS: 64. 17 MS. O'DELL: I think they're in the 17 BY MR. HEGARTY: right corner invoice number, and it's -- you said a Q. -- the Form B for calendar year 2017; is 18 18 hundred hours. 19 that correct? 19 20 MR. HEGARTY: Invoice number, right. 20 A. Correct. MS. O'DELL: You said a hundred 21 O. This again was a form that you filled out, 21 22 right? 22 hours, and they're not a hundred hours that were billed 23 23 A. Correct. for in 2017. 24 Q. On this form, you describe under the heading 24 THE WITNESS: 64 hours was billed on Date, two hours Saturday, and under hours you list 25 25 2017. Page 520 Page 522 10:00 a.m. to 12 noon. Do you see that? BY MR. HEGARTY: 1 1 A. I do. 2 2 Q. You have for an invoice dated 1-25-2018, 3 3 Q. We just talked about a form, the Form B 58 hours? before where you said that you needed to only list 4 A. What date is that? consulting activity that you were doing during the 5 O. That is invoice 10 -- 10025. week. Did that -- did the process or procedure A. That's January. 6 6 7 7 Q. January. So did you bill -change? That's the following year. 8 8 A. No. This is 2017, and it's supposed to be a A. 9 So your invoice in January of 2018 was 9 Friday. O. 10 Q. The date is supposed to be a Friday? 10 60 hours for that month? A. Friday. That's my consultation time. 11 A. That's 25 days in January, yes. 11 Q. I'm going to show you from your last Q. That was -- that would be more than four 12 12 deposition Exhibit Number 4, which were your invoices 13 hours a week, right? 13 that were provided at your deposition, and this exhibit A. Again -- okay. The consultation time is 14 four hours from 9:00 to 5:00 my work, but I can work shows that you started consulting with Beasley Allen 15 15 16 for which you were invoicing them beginning in the 16 from 5:00 to 9:00 every day, I can work with weekends. October/September time frame through the end of the 17 I can work, work, work. 17 year. Do you see that? **DEPOSITION EXHIBIT 48** 18 18 A. I do. 19 19 E-Mail Dated February 7, 2019 WAS MARKED BY THE REPORTER 20 Q. If you look at those invoices for the 2017 20 time frame and -- and you do the math, at least the 21 21 FOR IDENTIFICATION 22 math I did, it comes out to be about a hundred hours of 22 BY MR. HEGARTY: 23 23 Q. I've marked next as Exhibit 48 an e-mail work. dated February 7, 2019 regarding publishing of your 24 A. Okay. 24 25 25 manuscript; is that correct? But on your form that we marked as

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Ghassan Saed, Ph.D.

Page 523 Page 525 A. The Genome-Wide Association Study. 1 A. The SRI? 1 Q. Have you ever gone to the website and used 2 Q. From SRI; is that right? 2 3 3 the search tool for the catalog? MS. O'DELL: Object to the form. 4 THE WITNESS: This is from SAGE, the 4 A. I did. 5 proof -- the proofreading. 5 Q. Have you done it in the last four or five BY MR. HEGARTY: weeks? 6 6 Q. This is in connection with your manuscript 7 7 A. I did it yesterday. 8 being published, correct? 8 Q. Why did you do it yesterday? A. Because I wanted to look for new information 9 A. Yes, the SRI manuscript. 9 10 Q. Have you had any further communications with 10 about the risk of ovarian cancer with our markers, if 11 Reproductive Sciences or SAGE about your manuscript 11 there is any updates. since February 7, 2019? 12 12 Q. So what searches did you do on the GWAS A. No. 13 13 catalog? 14 **DEPOSITION EXHIBIT 49** A. If you go to NCBI website -- what search, 14 ovarian -- ovarian oxidative stress and increased 15 E-Mail Forwarded by Amy Harper on 15 16 February 11, 2019 16 ovarian cancer risk. 17 WAS MARKED BY THE REPORTER Q. And I asked you what search because it 17 FOR IDENTIFICATION actually gives you a box you can type search terms 18 18 19 BY MR. HEGARTY: 19 into, correct? 20 Q. I've next marked as Exhibit 49 an e-mail 20 A. They do, yes. that was forwarded to you by Amy Harper on February 11, Q. And what you just listed were the search 21 21 22 2019. 22 terms you typed in? 23 A. Correct. 23 Oxidative stress, risk of ovarian cancer. Q. She's forwarding you that e-mail, an e-mail Did you print off the results? 24 24 Q. from Reproductive Sciences dated October 10, 2018; is 25 25 A. No. Page 524 Page 526 that correct? Q. Did you also do a search for any of the SNPs 1 1 that you reported on in your manuscript? 2 A. Correct. 2 3 3 O. How did the -- how did the forwarding of A. In the GWAS? Q. Correct, in the GWAS catalog. 4 this e-mail come about? 4 5 A. I asked her to forward me the -- this 5 MS. O'DELL: Doctor, before you answer the question, I would just object to the 6 letter? 6 7 7 question to the extent that Ms. Sharko conveved in a Q. Why did you ask her to forward you this 8 8 February 6th e-mail, we aren't going to plow old letter? 9 9 ground, and -- and that was conveyed to Judge Pisano. A. She has access to the submission online, and 10 we needed this letter because you guys asked us for all 10 So you covered this -- this -- this area in detail last the communications, so I asked her to provide it. 11 time. 11 Q. Did you ask her to provide all 12 MR. HEGARTY: I'm not -- one, I'm 12 communications that she has in her possession with 13 not replowing old ground, and two, she represented that 13 RSI (sic) regarding your manuscript? because documents were produced late, that it precluded 14 14 us from covering areas that we would have otherwise A. Correct. 15 15 16 Q. Did she provide any communications to you 16 been able to cover if we had had more time, and this is 17 besides this one? 17 one such area that we were not able to cover because we A. (Gesturing). had to spend our time going through documents that 18 18 Q. That's the same one. 19 should have been produced. 19 A. Oh. She may. Everything she gave me, I 20 MS. O'DELL: That's what -- what was 20 gave you. It's pretty simple. represented to Judge Pisano by Ms. Sharko in a 21 21 22 Q. Dr. Saed, do you know what the GWAS catalog 22 February 6th e-mail was not what you just said. She 23 is? 23 said, we aren't going to replow old ground, end quote. MR. HEGARTY: And I'm not replowing 24 A. Yes, I do. 24 25 25 Q. What is it? old ground.

	Page 527		Page 529
1	MS. O'DELL: I think you are. I'm	1	A. Maybe.
2	just putting you on notice that that was the	2	Q. Well, do you read it any differently than I
3	representation.	3	did, I just described?
4	MR. HEGARTY: I don't disagree	4	A. No. What I'm saying is it doesn't have to
5	that's the representation, but I do disagree with your	5	be reported here. So the SNP is already known, and
6	contention that I'm replowing old ground.	6	it's been reported, published. It's not in the GWAS.
7	MS. O'DELL: I think you are, but	7	Q. This catalog, though, lists lists those
8	MR. HEGARTY: You can do what you	8	SNPs that have achieved genome-wide significance for
9	want to do then.	9	whatever particular risk they're you're looking at,
10	BY MR. HEGARTY:	10	correct?
11	Q. Doctor, my question was, did you put into	11	A. What risk you're looking at here.
12	the GWAS catalog search any of the SNPs you looked at,	12	MS. O'DELL: Object excuse me.
13	catalase, MPO, GSR? Did you do those searches?	13	Object to the form.
14	A. Not recently.	14	BY MR. HEGARTY:
15	MS. O'DELL: Object to form.	15	Q. This printout is just of a search of MPO and
16	BY MR. HEGARTY:	16	what significance it is achieved in terms of the
17	Q. You didn't do that yesterday?	17	studies, correct?
18	A. No.	18	A. No.
19	Q. Did you do any other searches yesterday	19	MS. O'DELL: Object to the form.
20 21	using the GWAS catalog besides those you talked about? A. No.	20 21	THE WITNESS: Not correct. BY MR. HEGARTY:
22	A. No. Q. Did you do any other searches strike	22	Q. What did I say that was not correct?
23	that. Did you do that search in preparation for	23	A. So what you need to do, the GWAS do you
24	today's deposition?	24	want me to explain how it works?
25	A. No.	25	Q. Sure.
23	71. 110.	23	Q. Suic.
	Page 528		Page 530
1		1	Page 530 A. 'Cause that's not how you do it.
1 2	Q. Okay. Why did you A. Most of the times I do this. Frequently.	1 2	
	Q. Okay. Why did you	1 2 3	A. 'Cause that's not how you do it.
2 3 4	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. 		 A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to
2 3	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for 	3	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer
2 3 4 5 6	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? 	3 4 5 6	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from
2 3 4 5 6 7	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. 	3 4 5 6 7	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then
2 3 4 5 6 7 8	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. 	3 4 5 6 7 8	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome
2 3 4 5 6 7 8 9	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 	3 4 5 6 7 8 9	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease.
2 3 4 5 6 7 8 9 10	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search 	3 4 5 6 7 8 9	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have
2 3 4 5 6 7 8 9 10	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER 	3 4 5 6 7 8 9 10 11	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just
2 3 4 5 6 7 8 9 10 11 12	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION 	3 4 5 6 7 8 9 10 11 12	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to
2 3 4 5 6 7 8 9 10 11 12 13	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: 	3 4 5 6 7 8 9 10 11 12 13	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to show you what I've marked as 	3 4 5 6 7 8 9 10 11 12 13 14	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to show you what I've marked as Exhibit Number 50. This is a GWAS catalog search for	3 4 5 6 7 8 9 10 11 12 13 14 15	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it. Q. So according to you, to determine whether
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to show you what I've marked as Exhibit Number 50. This is a GWAS catalog search for MPO. MPO is one of the SNPs you looked at, correct,	3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it. Q. So according to you, to determine whether MPO has reached genome-wide significance using the GWAS
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Okay. Why did you A. Most of the times I do this. Frequently. Q. So that's a catalog you frequently search? A. Yes, I do. Q. Is it an authoritative source for for you? A. Not necessarily, no. MS. O'DELL: Object to the form. DEPOSITION EXHIBIT 50 GWAS Catalog Search WAS MARKED BY THE REPORTER FOR IDENTIFICATION BY MR. HEGARTY: Q. I'm going to show you what I've marked as Exhibit Number 50. This is a GWAS catalog search for MPO. MPO is one of the SNPs you looked at, correct, Doctor? 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. 'Cause that's not how you do it. Q. All right. Explain it to me. A. Okay. GWAS, they compare they take DNA from normal patients, DNA from let's say I want to look at risk of ovarian cancer, from ovarian cancer patients, okay, and then they sequence the genome from group, the normal group and the patient group, and then they see which variance in these SNP in this genome that can be associated with this disease. So when you do the search, you have to put both parameters, not just one. If you put just MPO, it's going to tell you everything that related to what, in relation to what disease. You need to put something next to it. Q. So according to you, to determine whether MPO has reached genome-wide significance using the GWAS catalog, you have to put in MPO and ovarian cancer?
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Ghassan Saed, Ph.D.

Page 531 Page 533 and this has been --1 maybe once or twice, I don't know. I can't remember. Q. Have you had conversations with him beyond 2 MS. O'DELL: Don't -- don't -- be 2 3 3 precise. more than those -- more than those once or twice 4 THE WITNESS: Minus -- where do I 4 meetings? 5 find it now, in my manuscript. Do you want to know 5 A. The last time I met him was two years ago, 6 which one exactly? Okay, where is the table? 6 over two years ago. 7 BY MR. HEGARTY: 7 O. Have you ever had any manuscripts rejected 8 8 by Reproductive Sciences? Q. Finish your answer. 9 9 Yeah, I'm trying to determine the exact. A. Yes. Q. In the last -- when was the last time you 10 MS. O'DELL: If you need the table 10 to finish your answer, Doctor --11 had a manuscript rejected? 11 THE WITNESS: Yeah, the exact --MS. O'DELL: Object to the form. 12 12 yeah. Okay. So here we go. So --THE WITNESS: When was the last time 13 13 BY MR. HEGARTY: I had -- I can't remember. I really can't. 14 14 15 O. What are you look at? What exhibit? 15 BY MR. HEGARTY: A. I'm look at Exhibit 42. Where -- where is 16 16 Q. Since your deposition last month, have you 17 that. Where is my manuscript. I need my manuscript. 17 given any presentations to anyone at your university or Hold on one second. anyone in your profession regarding the results of your 18 18 19 I'm just trying to remember what tests? SNP number is going here, and it's not listed in -- in A. Individuals? 20 the genome wide. But it has been published about, Individuals or groups. 21 21 O. 22 that's what I'm trying to tell you. But it's not -- I 22 Agencies? A. 23 don't find it here. It's minus 463, I believe. But I 23 Q. Or agencies, anybody, since your last 24 can't find it. 24 deposition? 25 A. Yeah, Health Canada. I sent them an e-mail. But what I'm trying to say is that 25 Page 532 Page 534 there are SNPs that are reported in the GWAS for What are you -myeloperoxidase, like for example, this SNP that we --Telling them about my results. I have a minus 463 that has been published upon that has been 3 paper in press that deals with the effect of talcum associated with ovarian cancer. That's what I'm trying powder on the induction of oxidative stress. Q. When did you send an e-mail to Health to say. Q. Has that SNP achieved genome-wide Canada? 6 significance? A. Ten days ago maybe, a week. I can't A. I don't know. remember exactly. Q. If you would find Exhibit 40, please. 9 9 Q. Who did you send it to? 10 A. 40? 10 A. I went to the website, there was an e-mail Q. Four-oh. 11 that they ask you if you want to report something, 11 A. 40. That's 50. Where is 40. 44, 43. Yes. 12 clicked on the e-mail, and sent it. 12 Q. Exhibit 40 is a correspondence from you to 13 13 What did you send? Dr. Layman, correct? 14 A. I just told you, I sent that I have paper, 14 A. Correct. 15 manuscript in press that shows the effect of talcum 15 16 Q. Who is Dr. Layman? 16 powder on oxidative stress markers. 17 A. He is the Chief Editor for Reproductive 17 Q. Do you still have a copy of what you sent to Health Canada? 18 Science. 18 A. E-mail, you mean? O. Do you personally know Dr. Layman? 19 19 A. Do I personally know him, no. 20 Q. Yes. 20 21 O. Have you ever met him? A. I'm sure I can find my e-mail. 21 22 A. I met him once. He comes to the society 22 Q. Did you get a response? 23 23 A. I got a response saying that I will be meeting. You only met him once then, though? contacted later. 24 24 Q. 25 A. No. I met him during the society meetings, 25 O. Have you been contacted since you got that

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	Page 535		Page 537
1	e-mail response?	1	presentation to anyone else about your test results or
2	A. Not yet.	2	your manuscript?
3	Q. Did you provide Health Canada with a copy of	3	A. No.
4	your manuscript?	4	Q. Have you sent strike that. Have you
5	A. No.	5	communicated with FDA with regard to the findings in
6	Q. What prompted you to contact that particular	6	your manuscript?
7	agency with regard to your manuscript?	7	A. No.
8	A. Because that particular agency announced talcum powder as a risk factor for ovarian cancer.	8 9	Q. Have you communicated with anyone at the medical school for Wayne State regarding your
10	Q. How did you become aware of that?	10	manuscript or your test results?
11	A. The media. It's everywhere.	11	A. No.
12	Q. When did you become aware of what	12	MS. O'DELL: Object to the form.
13	Health Canada had announced with regard to tale and	13	THE WITNESS: But no.
14	ovarian cancer?	14	MS. O'DELL: Other than the author.
15	A. I can't remember exactly.	15	BY MR. HEGARTY:
16	Q. Did you become aware of it before your	16	Q. Have you ever prepared
17	deposition last month?	17	A. Yes, thank you. Other than the authors.
18	A. Before.	18	MR. HEGARTY: Do you want to take a
19	Q. And what prompted you ten days ago, at that	19	microphone and answer for him?
20	point in time, to actually go on the website and then	20	MS. O'DELL: No. I'll just object.
21 22	send an e-mail? A. The manuscript I was waiting for the	21 22	MR. HEGARTY: Do you think that was proper to add the name to get the doctor
23	manuscript to get in press.	23	MS. O'DELL: I think the question
24	Q. And what what document told you that the	24	was confusing, and and he testified to the other
25	manuscript was in press?	25	co-authors and their positions at the university, one
	1 1		1
	Page 536		Page 538
1	A. This reproof that I got.	1	of which is is a professor at the medical school.
_		1	
2	Q. You're talking you're pointing to	2	BY MR. HEGARTY:
3	Exhibit 40?	3	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint
3 4	Exhibit 40? A. February no. February from SAGE. The	3 4	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your
3 4 5	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7.	3 4 5	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript?
3 4	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence	3 4 5 6	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom?
3 4 5 6 7	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48.	3 4 5 6 7 8	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody.
3 4 5 6 7 8	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48?	3 4 5 6 7 8	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation?
3 4 5 6 7 8 9	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48? A. (Nodding head).	3 4 5 6 7 8 9	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster.
3 4 5 6 7 8	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48?	3 4 5 6 7 8	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster. A. Is that considered a
3 4 5 6 7 8 9 10	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48? A. (Nodding head). Q. So your e-mail correspondence with Health Canada would have come after February 7th? MS. O'DELL: Object to form.	3 4 5 6 7 8 9 10	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster. A. Is that considered a
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3 4 5 6 7 8 9 10 11 12 13 14	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48? A. (Nodding head). Q. So your e-mail correspondence with Health Canada would have come after February 7th? MS. O'DELL: Object to form. THE WITNESS: I can't remember. I really can't remember.	3 4 5 6 7 8 9 10 11 12 13 14	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster. A. Is that considered a Q. Well, you know what a PowerPoint presentation is? A. That's a PowerPoint presentation. Q. Just your poster?
3 4 5 6 7 8 9 10 11 12 13 14 15	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48? A. (Nodding head). Q. So your e-mail correspondence with Health Canada would have come after February 7th? MS. O'DELL: Object to form. THE WITNESS: I can't remember. I really can't remember. BY MR. HEGARTY:	3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster. A. Is that considered a Q. Well, you know what a PowerPoint presentation is? A. That's a PowerPoint presentation. Q. Just your poster? A. Yeah.
3 4 5 6 7 8 9 10 11 12 13 14 15 16	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48? A. (Nodding head). Q. So your e-mail correspondence with Health Canada would have come after February 7th? MS. O'DELL: Object to form. THE WITNESS: I can't remember. I really can't remember. BY MR. HEGARTY: Q. Other than communicating with Health Canada	3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster. A. Is that considered a Q. Well, you know what a PowerPoint presentation is? A. That's a PowerPoint presentation. Q. Just your poster? A. Yeah. Q. Okay. Have you other than that poster,
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Exhibit 40? A. February no. February from SAGE. The reproof that I just got, February 7. Q. So your e-mail correspondence A. 48. Q. I'm sorry, Exhibit 48? A. (Nodding head). Q. So your e-mail correspondence with Health Canada would have come after February 7th? MS. O'DELL: Object to form. THE WITNESS: I can't remember. I really can't remember. I really can't remember. BY MR. HEGARTY: Q. Other than communicating with Health Canada regarding your manuscript or your test results, since your last deposition I think it was on the 23rd or	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	BY MR. HEGARTY: Q. Have you ever prepared a PowerPoint presentation where you lay out the results of your tests or talk about your manuscript? A. To whom? Q. To anybody. A. Posters is a PowerPoint presentation? Q. Well, besides the poster. A. Is that considered a Q. Well, you know what a PowerPoint presentation is? A. That's a PowerPoint presentation. Q. Just your poster? A. Yeah. Q. Okay. Have you other than that poster, have you ever prepared a multi A. Like an oral talk? Q. Like an oral talk?
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Ghassan Saed, Ph.D.

Page 539 Page 541 about in this deposition? 1 linked to cancer, cause of cancer. 2 2 A. I'm going to SRI conference in Paris next There is also an inflammation --3 month, and I'm going to present this work that you see, inflammatory response, which is a normal response of these abstracts, and Dr. Harper will go to SU and 4 the body, okay, like for example, during ovulation 5 present that in March, all of March. 5 there is an oxidative stress and inflammation 6 Q. Is that SRI presentation different than the 6 associated with, but that's a normal physiological 7 other Paris presentation that we talked about? 7 process that is required for ovulation that will A. SRI is in Paris, SU is in Honolulu, and 8 completely correct it when that process is done. 8 they're back to back. That's why I can't be in both. 9 9 Q. I'm going to jump around a little bit, and 10 Q. Any other planned presentations --10 I'm going to come back to that. But in your A. Not yet. 11 manuscript, you report in the Treatment of Cells 11 Q. -- regarding your tests or your manuscript 12 12 section on page five -that you have not talked about? 13 A. Which exhibit do you have so we can --13 Well, in here, it's Exhibit 7 was the 14 A. Not yet. 14 Q. Is there anything in the works you have not original manuscript. 15 15 16 talked about? 16 A. Yes, this one? A. The works, no. 17 Yes. 17 O. Q. Dr. Saed, you agree that not all 18 18 Okay. What page? A. inflammation is the same, correct? If you go to page five. 19 19 O. A. I don't understand the question. 20 20 Okay. A. Q. Well, is all inflammation, regardless of the Q. You list under -- in the section Treatment 21 21 22 type, identical? 22 of Cells as treated with Fisher Scientific or baby 23 A. It says information --23 powder. Do you see where I'm reading? MS. O'DELL: Object to form. A. Yes, I do. 24 24 THE WITNESS: -- in front of me Q. What of your data reported in your 25 25 Page 540 Page 542 manuscript is of Fisher talc? here. 1 2 2 BY MR. HEGARTY: A. None. 3 Q. Why did you then list in the Treatment of 3 Q. Inflammation. A. Oh, it says inflammation. It says 4 Cells that the treatment was Fisher talc or baby 5 powder? information. 6 A. That's a typo, because we've done both, so O. Is all inflammation the same? 6 7 it's a typo. When we get the proof, we will correct In what term you are trying to get me to A. 8 that. And I'm aware of that. We discussed that last answer? 9 9 Q. Well, are there various types of time. inflammation? 10 10 Q. And how do the results of your tests show A. Yes, of course. that tale can cause chronic inflammation to ovarian 11 11 Q. Do you agree that inflammation doesn't 12 12 cells? 13 mean -- strike that. Do you mean that -- do you agree 13 A. The fact that it induces inflammation. that inflammation of tissue doesn't mean that that That's -- that's -- that's a great indication 14 14 that it is doing something in the body. 15 tissue will become cancerous? 15 16 MS. O'DELL: Object to the form. 16 Q. How long must inflammation last to be 17 THE WITNESS: Okay. Can I explain 17 considered chronic? MS. O'DELL: Object to the form. 18 18 this? BY MR. HEGARTY: 19 THE WITNESS: Okay, yes. So this is 19 invitro studies in cell lines, so to simulate that with 20 Q. Yes. 20 A. Okay. So there are two types of 21 what's going invivo, you have to do animal studies. 21 22 inflammation, okay. Acute inflammation that spike and 22 Which by the way, you asked me, but I misunderstood the come back, and that is not commonly linked with cancer 23 question about if I have -- have I done invivo studies 23 development. And chronic inflammation that stays for a in animals, and I have done many, but not related to 24 24 talc. I just want to correct this on the record. long time, and it is lower in magnitude, and that is 25

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Ghassan Saed, Ph.D.

Page 543 Page 545 Q. These opinions are made to a reasonable 1 BY MR. HEGARTY: degree of scientific certainty, and my question is, 2 Q. You have done many invivo studies --2 3 3 A. Yes. what does that part of the sentence mean to you? What 4 Q. -- in animals? does it mean when you say your opinions are to a A. Yes, because I was not understanding your 5 5 reasonable degree of scientific certainty? invitro cells going to the animals. I have done real A. They are based on my expertise, training, 6 invivo studies where I operated on animals and create 7 experience, knowledge of the literature, all that postoperative adhesions and studied many, many animal 8 stuff. models, and I have published all that. 9 9 O. Well. I understand that that's what 10 MR. HEGARTY: Could we go off the 10 follows, but I mean when you say -- what is the 11 record real quick? 11 meaning of a reasonable degree of scientific THE VIDEOGRAPHER: We're going to go 12 certainty? 12 A. That's what I explained. That's what I 13 off the record, the time is 12:56. 13 meant. That's how I explained it. 14 (There was a recess taken.) 14 O. You meant that your opinions are based on my 15 THE VIDEOGRAPHER: We're back on the 15 16 record at 1:22. 16 experience, training and expertise, etcetera? MS. O'DELL: Object to the form. BY MR. HEGARTY: 17 17 THE WITNESS: My -- my opinion is 18 Q. Dr. Saed, you previously worked with your 18 consulting firm, UD Biotech, with Michael Diamond; is based on my expertise, training, experience, and 19 19 knowledge of literature. 20 that correct? 20 21 BY MR. HEGARTY: 21 A. No. that's not correct. 22 Q. Who is Michael Diamond? 22 Q. And that's what a reasonable degree of 23 A. Michael Diamond was our reproductive 23 scientific certainty means to you? endocrinology chief at Wayne State, and when he was 24 24 A. Yes. here, we created the company together, but we never did 25 MS. O'DELL: Object to the form. Page 544 Page 546 anything. So years later he moved to University of 1 BY MR. HEGARTY: Augusta, and when he moved there, he asked to separate 2 Q. If you look at the end of that first from the company. We never did anything together at 3 paragraph, you say, knowledge of the relevant 4 the company. 4 literature and my previous and ongoing research. Do 5 Q. Have you had any discussions with 5 you see that? Dr. Diamond about your tests with talc or your 6 A. I do. 6 7 7 Q. Do you have any ongoing research with regard manuscript? 8 A. No. 8 to this subject area? 9 Q. You mentioned your report for this case, 9 A. The talc and the inflammation? 10 which is Exhibit 16. I'm not sure if I've given it 10 Q. Correct. back to you, and I think we have a --11 A. Or the inflammation and cancer, yes, I do. 11 A. Thank you. Q. What is ongoing? 12 12 Q. -- different number of exhibits here. You 13 A. We are planning to do more work in this. 13 found your report? Q. What work are you planning to do? 14 14 A. That's the report I think. A. More biological work. 15 15 16 Q. If you can go to page 20, please. 16 Q. What type of work? 17 A. Page 20. Sorry, I'm losing my voice. 20, 17 Maybe look at animal studies, maybe looking at sequencing of some genes. 18 18 yes. Q. In the section Summary of Opinions, do you Q. How far has that --19 19 see that section? 20 20 A. I'm not sure yet. Q. I'm sorry. How far has that progressed? 21 A. I do. 21 22 Q. You say, these opinions are made to a 22 A. Not yet. 23 reasonable degree of scientific certainty. What does 23 When you say not yet --O. that mean to you? We -- the ongoing part is just the cell 24 24 A. A. Where do you read, please? line, the cell culture part. 25

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	Page 547		Page 549
1	Q. Do you have plans to do any other strike	1	MR. HEGARTY: All right.
2	that. Do you have any current plans, sitting here	2	THE VIDEOGRAPHER: We're going off
3	today, for other cell studies or tests like you did in	3	the record, the time is 1:28.
4	your manuscript involving talc?	4	(There was a recess taken.)
5	MS. O'DELL: Object to the form.	5	THE VIDEOGRAPHER: We're back on the
6	Would you would you mind repeating the question, or	6	record at 1:31.
7	read it back, please?	7	EXAMINATION BY MS. O'DELL:
8	THE WITNESS: What was the question?	8	Q. Dr. Saed, I have a few questions for you. I
9	BY MR. HEGARTY:	9	think in front of you I put Exhibit 24, which was a
10	Q. Do you have plans to do do you have any	10	copy of your preliminary study that counsel for J & J
11	current plans, sitting here today, for other cell	11	marked previously.
12	studies or tests like you did in your manuscript	12	A. Yes.
13	involving talc?	13	Q. And if you'll turn to the last page of 24.
14	A. Do I have current right now going on in my	14	It should be near the top, 'cause I pulled it out
15	lab right now?	15	previously. Yeah. Is that it? Okay.
16	Q. Either going on in your lab, or that you	16	If you'll turn to the last page of
17	plan to do or give thought to do?	17	the exhibit. Just turn it over, I think, because it's
18	A. Yes, I am.	18	front and back. It's a copy of your poster that
19	Q. What are those?	19	counsel asked you about earlier.
20	A. I'm planning to do more cell lines, and I'm	20	A. Correct.
21	planning to do the transformation assay.	21	Q. And in the results as written on the
22 23	Q. What's a transformation assay?A. The one we spent three hours discussing.	22 23	left-hand side of the poster, is there a
24	Q. The Aim III?	24	suggestion that the results are statistically significant?
25	A. Yes.	25	MR. HEGARTY: Objection, form.
23	11. 103.	23	With Till Office 17. Objection, form.
	Page 548		Page 550
1	Page 548 Q. And how far along are those plans?	1	Page 550 BY MS. O'DELL:
1 2	Q. And how far along are those plans?A. Planning. I don't know.	1 2	BY MS. O'DELL: Q. Do you report the results as statistically
	Q. And how far along are those plans?A. Planning. I don't know.Q. Do you have a timetable for any of those	_	BY MS. O'DELL: Q. Do you report the results as statistically significant?
2 3 4	Q. And how far along are those plans?A. Planning. I don't know.Q. Do you have a timetable for any of thoseA. Not yet.	2 3 4	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section,
2 3 4 5	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? 	2 3 4 5	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean
2 3 4 5 6	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? A. Not yet. 	2 3 4 5 6	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean they are statistically significant necessarily.
2 3 4 5	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? A. Not yet. Q. Have you gone strike that. Do you have 	2 3 4 5 6 7	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean they are statistically significant necessarily. Q. You also were asked some questions early on
2 3 4 5 6 7 8	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? A. Not yet. Q. Have you gone strike that. Do you have plans beyond the thinking stage for any tests involving 	2 3 4 5 6 7 8	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean they are statistically significant necessarily. Q. You also were asked some questions early on in your continued deposition this morning, and and
2 3 4 5 6 7 8 9	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? A. Not yet. Q. Have you gone strike that. Do you have plans beyond the thinking stage for any tests involving cell lines or invivo studies that involve talc? 	2 3 4 5 6 7 8 9	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean they are statistically significant necessarily. Q. You also were asked some questions early on in your continued deposition this morning, and and in regard to the series of questions, you expressed
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2 3 4 5 6 7 8 9 10 11 12 13	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? A. Not yet. Q. Have you gone strike that. Do you have plans beyond the thinking stage for any tests involving cell lines or invivo studies that involve talc? A. Other than what I just mentioned? Q. Other than what you talked about? A. Not not I don't think of anything right now. I may. 	2 3 4 5 6 7 8 9 10 11 12 13	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean they are statistically significant necessarily. Q. You also were asked some questions early on in your continued deposition this morning, and and in regard to the series of questions, you expressed confusion by the question. I think at one point you said there was a mixup. What did you mean by that? A. A mixup in the question, because the question was a compound question. Each part contradict
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. And how far along are those plans? A. Planning. I don't know. Q. Do you have a timetable for any of those A. Not yet. Q those those proposed tests? A. Not yet. Q. Have you gone strike that. Do you have plans beyond the thinking stage for any tests involving cell lines or invivo studies that involve talc? A. Other than what I just mentioned? Q. Other than what you talked about? A. Not not I don't think of anything right now. I may. Q. Have you prepared any written proposals 	2 3 4 5 6 7 8 9 10 11 12 13 14	BY MS. O'DELL: Q. Do you report the results as statistically significant? A. Not as written in the results section, because it says marked increase. Marked doesn't mean they are statistically significant necessarily. Q. You also were asked some questions early on in your continued deposition this morning, and and in regard to the series of questions, you expressed confusion by the question. I think at one point you said there was a mixup. What did you mean by that? A. A mixup in the question, because the question was a compound question. Each part contradict the other.
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Ghassan Saed, Ph.D.

Page 551 Page 553 for the data that's reported in your manuscript. Let question? 1 me ask you to turn to page -- I believe it is 39. 2 2 A. I do. 3 A. Yes. 3 Q. There was actually a series of questions. 4 Q. And it says -- I think it's Calculation Data 4 In fact, Aim III -- does Aim III compose a number of 5 is written in at the top. 5 different types of tests? MR. HEGARTY: Objection, form. 6 A. Yes. 6 7 7 THE WITNESS: It does. Q. Do you see that? And you were asked a number of questions about the column that's marked 8 8 BY MS. O'DELL: Average. Do you recall those questions? 9 O. And which of the tests listed in Aim III 10 A. Yes. 10 have you completed? Q. And Dr. Saed, who calculates the average and A. We did -- we did them with our cell lines. 11 11 the normalized average in -- in a table like this in We did myeloperoxidase, we did iNOS, and we did -- we 12 12 did caspase-3, activity for apoptosis. 13 the lab notebook? 13 Q. Okay. And when you say MPO, what --14 A. So all these data were submitted to our 14 A. Myeloperoxidase, and inducible nitric oxide 15 biostatistician, and he analyzed all the statistics. 15 16 Q. Do you rely on the biostatistician in terms 16 synthase, and then caspase-3, activity for apoptosis. 17 of the type of data analysis that is performed? 17 Apoptosis. 18 A. I do. 18 Q. And -- and any suggestion that Johnson & Q. And is he or she, the biostatistician, the 19 Johnson counsel made that these tests were not 19 person that decides the type of calculation that's 20 20 performed would be incorrect? going to be done and how it is formulated into a 21 21 MR. HEGARTY: Objection, form. 22 spreadsheet? 22 THE WITNESS: They were performed in 23 A. Correct. 23 our cell lines that we report in the manuscript, yes. Q. And do you defer to the biostatistician for 24 24 BY MS. O'DELL: that type of contribution? 25 O. Okay. You were asked about a submission to 25 Page 552 Page 554 A. Correct. Health Canada. Did you submit the comments, to the 1 Q. Do you have any information that would best of your knowledge, prior to the deadline for doing 2 2 3 suggest that the information contained in the columns so? calculated by the biostatistician are incorrect? 4 A. Yes. 5 A. No. 5 Q. Was your -- when was your manuscript accepted for publication by SRI approximately? 6 Q. You've been asked a number of questions 6 7 today about documents that have been provided over 7 A. I believe January, around that time. the -- prior to your initial deposition and -- and 8 Q. Lastly, you were -- maybe not lastly, but since that time. Are you aware of any documents in 9 you were asked a series of questions regarding your 10 your possession that have not been produced? 10 report, and specifically, the basis for your opinions. A. I'm not aware. Are your opinions in this case based on the research 11 11 Q. You were asked questions about a budget that that you conducted and that you have -- the data for 12 12 you prepared in September of 2017 that was marked as which you've included in your report and manuscript? 13 13 Exhibit 44. 14 14 A. Yes. A. Yes. 15 O. And are your opinions in this case also 15 16 Q. And it should be near the top. 16 supported by the scientific and medical literature? MR. HEGARTY: Objection, form. 17 A. I remember it. 17 Q. And if you'll -- when you have that in front THE WITNESS: Yes. 18 18 of you, Doctor, if you'll turn to page three of the 19 BY MS. O'DELL: 19 budget. And it -- particularly, you were asked --Q. You mentioned that you anticipate doing 20 20 strike that. Let me start again. continued research in the future. Do you need 21 21 22 You were asked a series of questions 22 additional research to support the opinions that you've 23 about Aim III of the budget, and there were some 23 provided in this case? questions asked regarding a particular test that was A. No. The opinion based on the data so far 24 24 collected, which is based on cell lines, is sufficient performed in relation to Aim III. Do you recall that 25

	Page 555		Page 557
1	to draw this conclusion	1	MS. O'DELL: to you previously.
2	Q. And and	2	So I don't want the record to be unclear on that.
3	A and we are go ahead.	3	There may be some other things, but but what the
4	Q. No, please, go ahead.	4	doctor has testified to is he has provided everything
5	A. And we are planning to do some more work.	5	in his possession.
6	Q. Okay. What level of confidence do you have	6	REEXAMINATION BY MR. HEGARTY:
7	in the opinions that you've offered in this case?	7	Q. Doctor, if you look at the abstract I'm
8	A. Great confidence.	8	sorry, look at the poster that you had we have been
9	Q. Would it be fair to say that you hold	9	talked about today talking about today.
10	that in your opinion it is far more than, quote, more	10	A. Yes.
11	likely than not that your opinions are supported by	11	Q. Do you have that in front of you?
12	your data and research?	12	A. I have to find it. Yes.
13	MR. HEGARTY: Objection, form.	13	Q. You reported in this poster that treatment
14	THE WITNESS: My conclusion and	14	of 20 micrograms per milliliter of the cells with talc
15	opinion is based on data from my work here, and they	15	showed a marked increase in the anti-oxidant enzymes
16	are supported by it, yes.	16	CAT, SOD-3, GSR, GPX1 and GSTP1, correct, at the
17	BY MS. O'DELL:	17	20 microgram per milliliter level?
18	Q. Last question, Doctor. You were asked a	18	A. I don't see where you're reading.
19	number of questions about invitro models and their	19	Q. Well, I'm not necessarily reading a
20	usefulness in cancer research. Do invitro models	20	particular part, but this poster shows a marked
21	reliably predict the pathogenicity of harmful	21	increase in the enzymes CAT, SOD-3, GST, GPX1 and GSTP1
22	particulates or other carcinogens in humans?	22	at the 20 microgram level, correct?
23	MR. HEGARTY: Objection, form.	23	MS. O'DELL: Object to the form.
24	THE WITNESS: Yes.	24	Where are you reading? Which table are you referring
25		25	to?
23	MS. O'DELL: I've got nothing	23	10:
	Page 556		Page 558
1	Page 556 further.	1	Page 558 MR. HEGARTY: I'm reading the
1 2	•	2	MR. HEGARTY: I'm reading the Results section.
	further.		MR. HEGARTY: I'm reading the
2	further. MR. HEGARTY: Just a few follow-up	2	MR. HEGARTY: I'm reading the Results section.
2 3	further. MR. HEGARTY: Just a few follow-up questions. First, I just want to put on the record we	2 3	MR. HEGARTY: I'm reading the Results section. THE WITNESS: In the Results
2 3 4	further. MR. HEGARTY: Just a few follow-up questions. First, I just want to put on the record we want to want to request documents that the doctor	2 3 4	MR. HEGARTY: I'm reading the Results section. THE WITNESS: In the Results section, where does it say 20 microgram? BY MR. HEGARTY: Q. Well, you say that you show increases in
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Ghassan Saed, Ph.D.

Page 559 Page 561 1 Q. Do you have the galley pages yet for your -effect of the exposure of talc to the cells, and that by itself is intriguing. That's the whole objective of your Reproductive Sciences manuscript? 2 2 3 A. Galley? The proof? this whole work. And if you want details of which one increased how much, I can't tell you from here. I have 4 Q. The proof. 5 to go back to the data. 5 A. Not yet. Q. So you would have to look at the data? You Q. Are you -- do you have currently 6 6 7 couldn't look at the individual graphs? 7 ongoing -- strike that. Do you have any ongoing A. Very hard to see this. Very small. Barely 8 inflammatory studies? In other words, are you doing 8 any cell line treatments testing for inflammation 9 I can see it. 10 Q. So you can't tell by looking at the 10 currently? 20 microgram per milliliter data, for example, SOD-3, MS. O'DELL: Object to form. 11 11 and see if there was a marked increase in the 12 BY MR. HEGARTY: 12 Q. Let me strike that. That's a bad example -anti-oxidant SOD-3? 13 13 MS. O'DELL: Objection. question. Do you have any current studies looking at 14 14 THE WITNESS: As compared to inflammation in ovarian cancer? 15 15 16 control. 16 MS. O'DELL: Object to form. BY MR. HEGARTY: 17 THE WITNESS: This is the core of 17 Q. Yes. 18 our lab. That's what we do. 18 19 A. So yeah, it's hard for me to do. 19 BY MR. HEGARTY: Q. Okay. Do you remember your Q. Right. But do you have any current studies 20 20 biostatistician's name? You were not able to recall ongoing? 21 21 22 it. 22 A. Related to talc? 23 A. Steven Goyski something. I can find it. 23 O. No. Related to inflammation in ovarian Q. Going back to your Aim III in Exhibit 44, 24 24 cancer? which counsel asked you about. You were asked whether 25 A. Of course. 25 Page 560 Page 562 you had done those tests and -- some of those tests, Q. Okay. How many such studies do you have 1 and you said you had done those in your cell lines, 2 going on? 3 3 correct? A. I don't know. I can't remember. 4 A. Yes. 4 Q. Can you remember one of them? 5 Q. You did not do those tests in cells 5 Yeah. suspended in agar at 500 cells per well, and then Q. Which one can you remember? 6 7 incubated in a humidified incubator for 14 to 21 days, 7 A. We have identified a new role 8 8 myeloperoxidase, which is a key inflammatory marker, correct? 9 9 and we found that we were the first to report that it A. There is need to do that. 10 MS. O'DELL: Object. Object to the 10 is expressed in ovarian cancer cells, which it's not 11 supposed to be there, and then people after us 11 form. BY MR. HEGARTY: confirmed that. 12 12 13 13 Q. Did you -- you did not do those tests in We found that the form that is those -expressed in epithelial ovarian cancer is the monomer 14 14 A. Specific environment? form not the dimer form that is found in macrophages. 15 15 16 Q. -- involved in agar? 16 We -- interestingly, we found that ovarian cancer 17 A. In this specific environment, no. There was 17 patients, they have higher levels of oxidated stress in no need to do that. their plasma. 18 18 Q. You mentioned you submitted your comments 19 And we ran plasma assay and 19 looked at the form of MPO, and we found that it's to Health Canada in advance of the deadline. How 20 20 a monomer form. Monomer means it is reduced 21 did you know what the deadline was to submit your 21 22 comment? 22 because of oxidation, high level of oxidation. So 23 A. I went -- I went to the website, and I can't 23 that's ongoing now in our lab. And we just submitted a really remember when I did that. That's the whole 24 24 grant. 25 25 idea. Q. You were asked by counsel if you have plans

	Page 563		Page 565
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	to do other studies, which I had asked you about, involving talc in cell lines, and you said we are planning to do these. Who is "we"? A. We, our lab. Q. Okay. When you say your lab, who are youwho are you including in that? A. My lab, my research assistants, my collaborators, my fellows. Q. And who are those individuals? A. Dr. Harper, my Dr. Rong, Florie, Dr. Morris, myself, and who else can I remember. And we have some a guy from Pathology doing some work for us, yes. Q. And do you know who the guy from Pathology is? A. Yes. His name I'm really bad with names. Do you want his name? Q. If you can remember it. A. I can't remember his name, but he he does the immunofluorescent staining for us. We have several projects ongoing right now in our lab. MR. HEGARTY: That's all questions I have. MR. LOCKE: Can I just ask one really quick question?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	CERTIFICATE OF NOTARY STATE OF MICHIGAN) SS COUNTY OF OAKLAND I, Jennifer L. Ward, Certified Shorthand Reporter, a Notary Public in and for the above county and state, do hereby certify that the above deposition was taken before me at the time and place hereinbefore set forth; that the witness was by me first duly sworn to testify to the truth, and nothing but the truth, that the foregoing questions asked and answers made by the witness were duly recorded by me stenographically and reduced to computer transcription; that this is a true, full and correct transcript of my stenographic notes so taken; and that I am not related to, nor of counsel to either party nor interested in the event of this cause. Jennifer L. Ward, CSR-3717 Notary Public, Oakland County, Michigan My Commission expires: 10-27-2019
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 564 EXAMINATION BY MR. LOCKE: Q. This relates to your Health Canada contact that you had recently. When you contacted Health Canada, did you inform Health Canada that you are a litigation consultant? A. No. MS. O'DELL: Object to form. THE WITNESS: No, I did not. MR. LOCKE: Thank you, Doctor. THE WITNESS: Thank you. MR. HEGARTY: Thank you. THE VIDEOGRAPHER: We're going to go off the record, the time is 1:48. (The deposition was concluded at 1:48 p.m.)	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	I have reviewed the above transcript and have listed corrections, if any, on the attached errata sheet, thisday of

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	E R R A T A		
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